USER MANUAL

MCT Manual

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INTRODUCTION

Thank you for purchasing the MultiPoint Workstation. The MultiPoint Workstation (MWS400UL) is designed specifically for Windows MultiPoint Server 2011. Simply connect it to an available USB port /or Gigabit Ethernet Port on the server, and attach a monitor, keyboard, and mouse to add a new workstation. The MWS400UL features four high-speed USB 2.0 ports, audio and microphone ports, Gigabit LAN port, a VGA port that supports resolutions up to 1680 x 1050, and a power switch that can also reset this device. Add up to ten MWS400UL per server. The MWS400UL provides an inexpensive and reliable way to expand your Windows MultiPoint Server 2011 for school and office running “office application”; “Home Entertainment” and “Full Screen Movie Playback” are not recommended.

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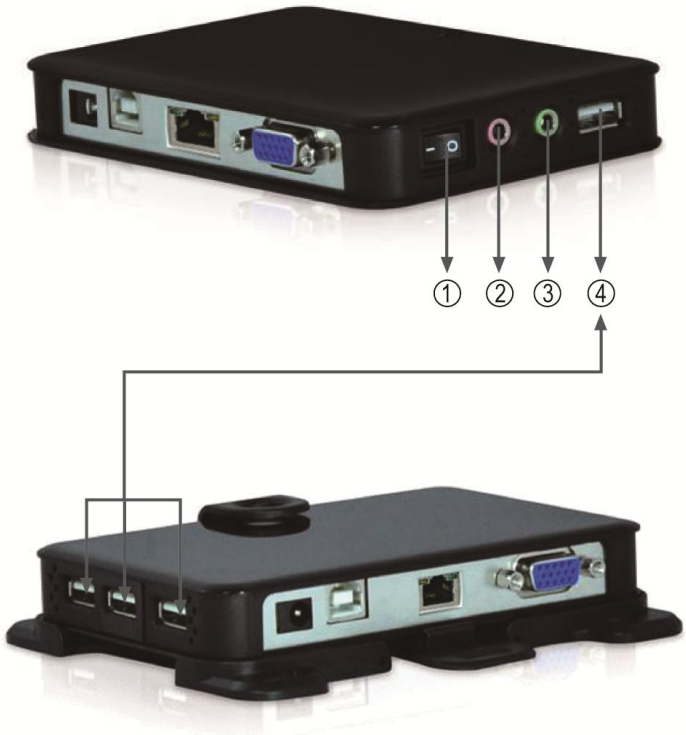
FEATURES

- Resolutions up to 1680x1050 (1600x900 is recommend)
- 4 x high-speed USB 2.0 Ports
- Stereo Audio Output (Speaker/Headphone) and Mono audio input (Mic)
- I/O Switch (Power button), power on/off and Reset the device.
- USB 1.1 & 2.0 compliant
- Plug-and-Play compliant
- Up-stream over USB or LAN workstation with Giga bit LAN.

APPLICATION

① AC Power Jack
② To Pc (USB2.0 B Type)
③ Giga Lan Port
④ VGA Port Supports up to 1680X1050



① I/O Switch
(Power on/off and Reset)
②③ Audio Port
(Speaker & Microphone)
④ 4 High-Speed USB Ports

PACKAGE CONTENTS

- MWS400UL
- VESA Mounting kits
- USB2.0 cable (1.8 Meters)
- 3A/5V AC Power Adapter
- CD (Driver and User Manual)

MINIMUM SYSTEM REQUIREMENTS

- **Available USB 2.0 Port**
- **CPU –** One of the following:

  x64-based Intel Pentium, Intel quad core (i7, i5, i3), XEON, Intel dual core.

  Compatible processor (MultiPoint Server supports up to four core & eight core CPUs on one server)

Note:

1) AMD Opteron / Athlon, AMD Embed chipset is not recommend due to unstable keyboard/mouse operation which may not recognize under USB1.1 device.
2) Intel Itanium Processor is not supported.

- **RAM** – The required RAM depends on the number of Workstation is needed:

  2 GB for 4 stations

  4 GB for 6 stations

  8 GB for 10 stations

- **Multi-core processor support**

  Support up to 4 & 8 multi-core processors; dual-core is less powered and therefore only 2 to 3 workstation can be supported.

- **Minimum disk space for setup**

  32 GB

OPERATING SYSTEMS SUPPORTED

For optimal multimedia performance, we recommend the following CPUs:

- Dual-core processor: support up to 3 stations under low processing application.
- Quad-core processor: support up to 6 stations under low processing application.
- Core-i5 processor: support up to 6 stations under low processing application.
- Core-i7 processor: support up to 6 or 10 stations under low processing application.
- Windows MultiPoint Server 2011

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FOR OPTIMUM VIDEO DISPLAY

Technically, short video playbacks can be supported but the operating system needs to be

- i7 processor
- Intel Sandy bridge chipset

Note: Extended video display at full screen is not recommended; it often exhausts CPU and force system with much lower performance.

REGULATORY COMPLIANCE

FCC / CE / C-tick / VCCI

Tested to comply with FCC Standards.

SUPPORTED DISPLAY RESOLUTIONS

Aspect Ratio	Resolution	Color Bits	Refresh Rate
16:10	1600*900 (is recommended)	32	60
16:10	1600 * 1200	32	60
16:10	1680 * 1050	32	60
16:10	1440 * 900	32	60
4:3	1400 * 1050	32	60
16:9	1360 * 768	32	60
5:4	1280 * 1024	32	60
4:3	1280 * 960	32	60
16:10	1280 * 800	32	60
15:9	1280 * 768	32	60
16:9	1280 * 720	32	60
4:3	1152 * 864	32	60
4:3	1024 * 768	32	60
4:3	800 * 600	32	60

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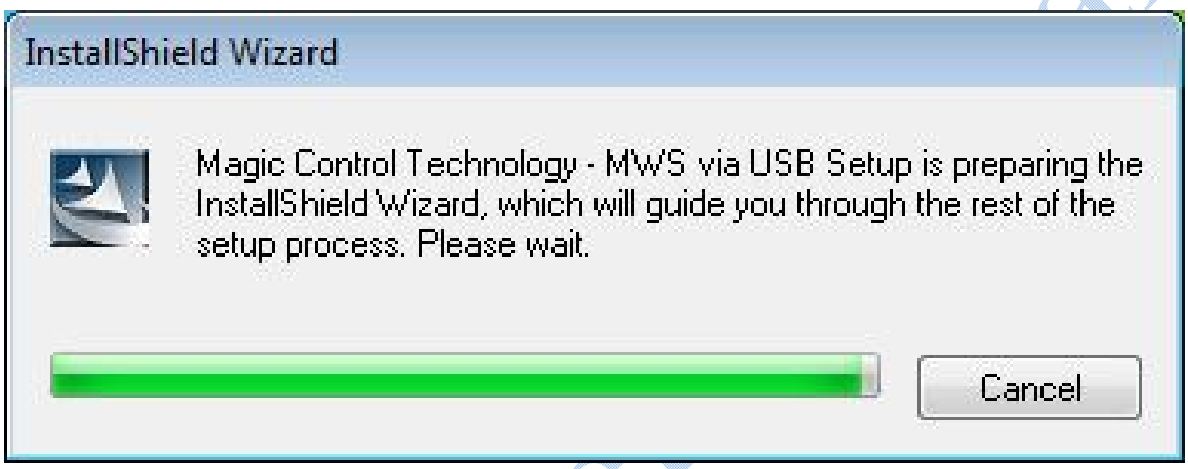
DEVICE INSTALLATION - SOFTWARE

Installing the device driver enables Windows MutliPoint Server 2011 to recognize the MWS400UL. Please make sure the MWS400UL is unplugged from your server before executing the setup program.

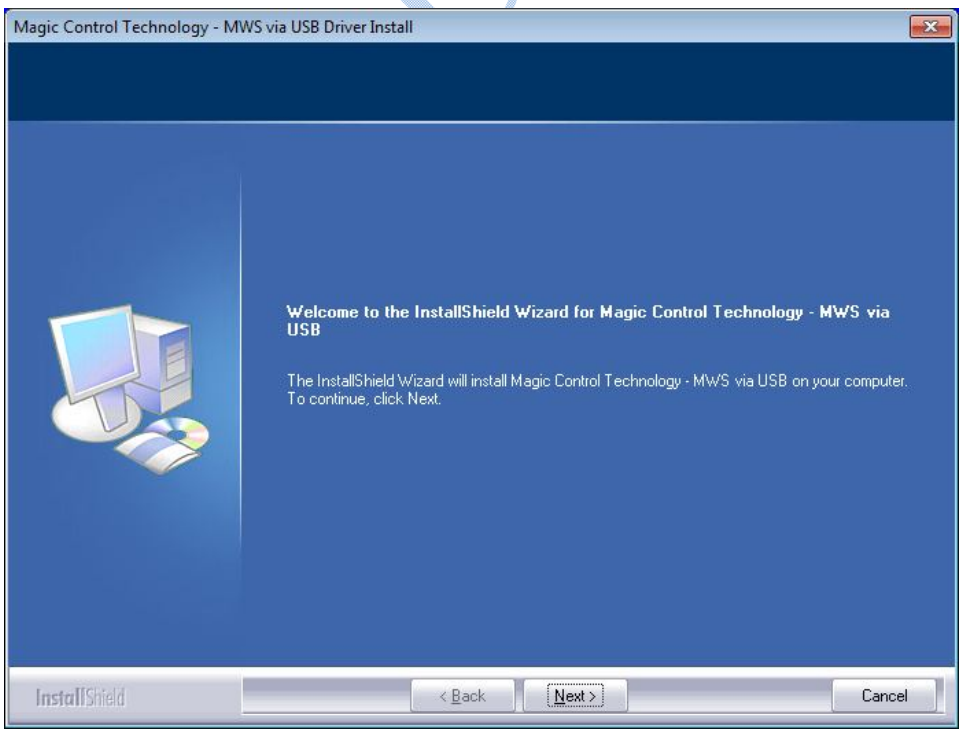
Step 1

Insert the Driver installation CD into the CD-ROM drive. The installer should start automatically. If it does not, double click **Setup.exe** to start the Installation Wizard.


InstallShield Wizard
Magic Control Technology - MWS via USB Setup is preparing the InstallShield Wizard, which will guide you through the rest of the setup process. Please wait.
Cancel

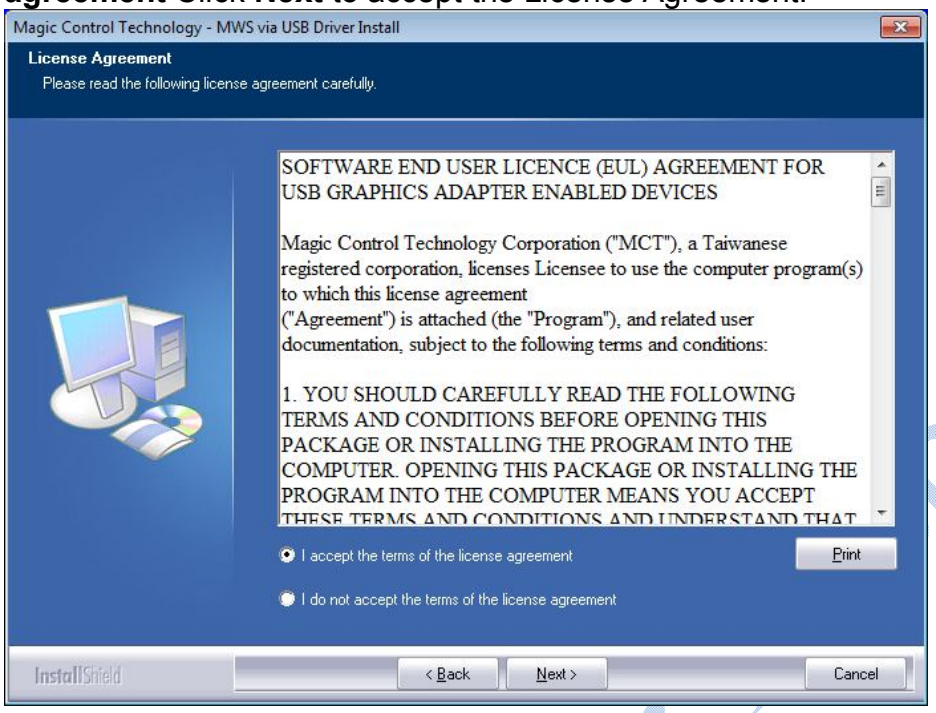
Step 2

Driver Installation Wizard, click **Next** to continue


Magic Control Technology - MWS via USB Driver Install
Welcome to the InstallShield Wizard for Magic Control Technology - MWS via USB
The InstallShield Wizard will install Magic Control Technology - MWS via USB on your computer. To continue, click Next.
InstallShield
< Back
Next >
Cancel

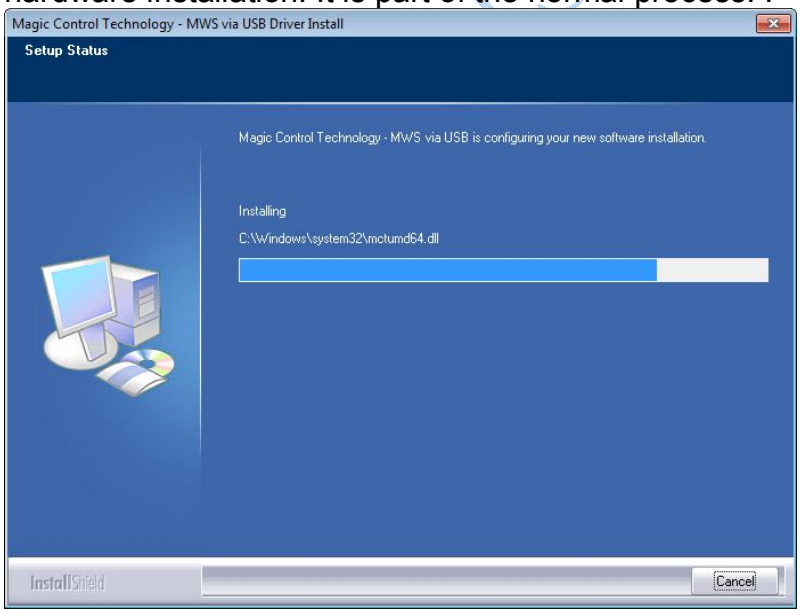
Step 3

License Agreement; review it and check **I accept the terms of the license agreement** Click **Next** to accept the License Agreement.


Magic Control Technology - MWS via USB Driver Install
License Agreement
Please read the following license agreement carefully.
SOFTWARE END USER LICENCE (EUL) AGREEMENT FOR USB GRAPHICS ADAPTER ENABLED DEVICES
Magic Control Technology Corporation ("MCT"), a Taiwanese registered corporation, licenses Licensee to use the computer program(s) to which this license agreement ("Agreement") is attached (the "Program"), and related user documentation, subject to the following terms and conditions:
1. YOU SHOULD CAREFULLY READ THE FOLLOWING TERMS AND CONDITIONS BEFORE OPENING THIS PACKAGE OR INSTALLING THE PROGRAM INTO THE COMPUTER. OPENING THIS PACKAGE OR INSTALLING THE PROGRAM INTO THE COMPUTER MEANS YOU ACCEPT
I accept the terms of the license agreement
I do not accept the terms of the license agreement
Print
InstallShield
< Back
Next >
Cancel

Step 4

Setup is searching for installed features... *You may notice the screen flashes during hardware installation. It is part of the normal process. .


Magic Control Technology - MWS via USB Driver Install
Setup Status
Magic Control Technology - MWS via USB is configuring your new software installation.
Installing
C:\Windows\system32\mctumd64.dll
InstallShield
Cancel

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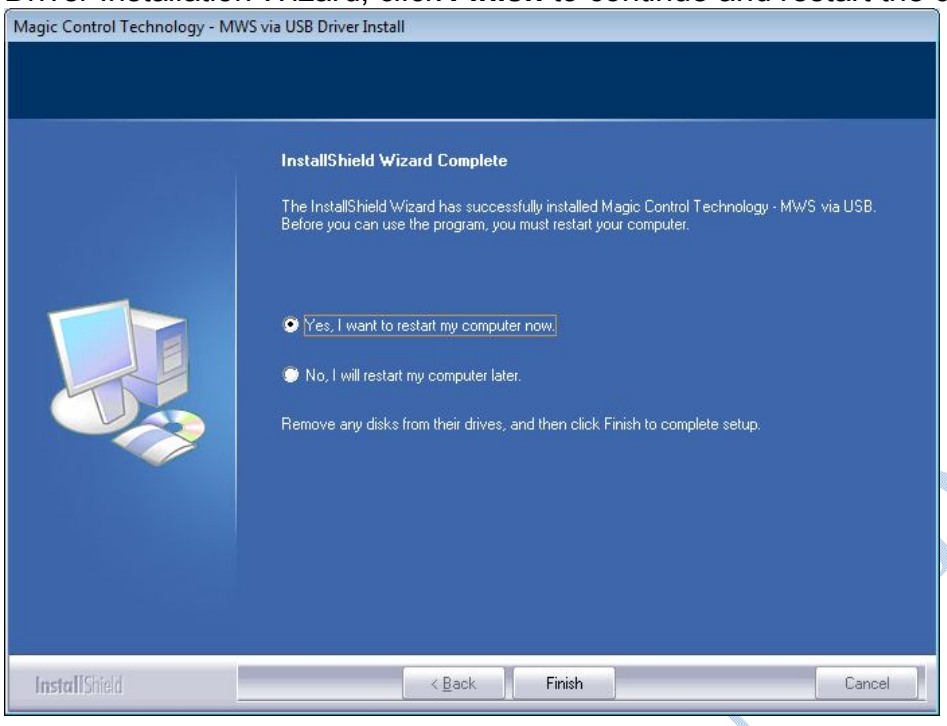
Step 5

Driver Installation Wizard, click **Finish** to continue and restart the computer.


Magic Control Technology - MWS via USB Driver Install
InstallShield Wizard Complete
The InstallShield Wizard has successfully installed Magic Control Technology - MWS via USB. Before you can use the program, you must restart your computer.
Yes, I want to restart my computer now.
No, I will restart my computer later.
Remove any disks from their drives, and then click Finish to complete setup.
InstallShield
< Back
Finish
Cancel

INSTALLING MWS400UL HARDWARE

Step 1

Connecting monitor to the VGA connector of the MWS400UL, turn on the monitor. Connecting power adapter, Giga LAN cable, USB cable, keyboard, and mouse to the MWS400UL.

Step 2

Connect one end of the USB cable to the MWS400UL and the other end to an available USB 2.0 port of your computer. Or Connect one end of the Giga LAN cable to the MWS400UL and the other end to an available Giga LAN port of Router. The driver installation will proceed automatically.

Step 3

Repeat steps 1 & 2 for the remaining MWS400UL on to other workstation.

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INSTALLING DRAWING of MWS400UL HARDWARE via GigaLAN Port

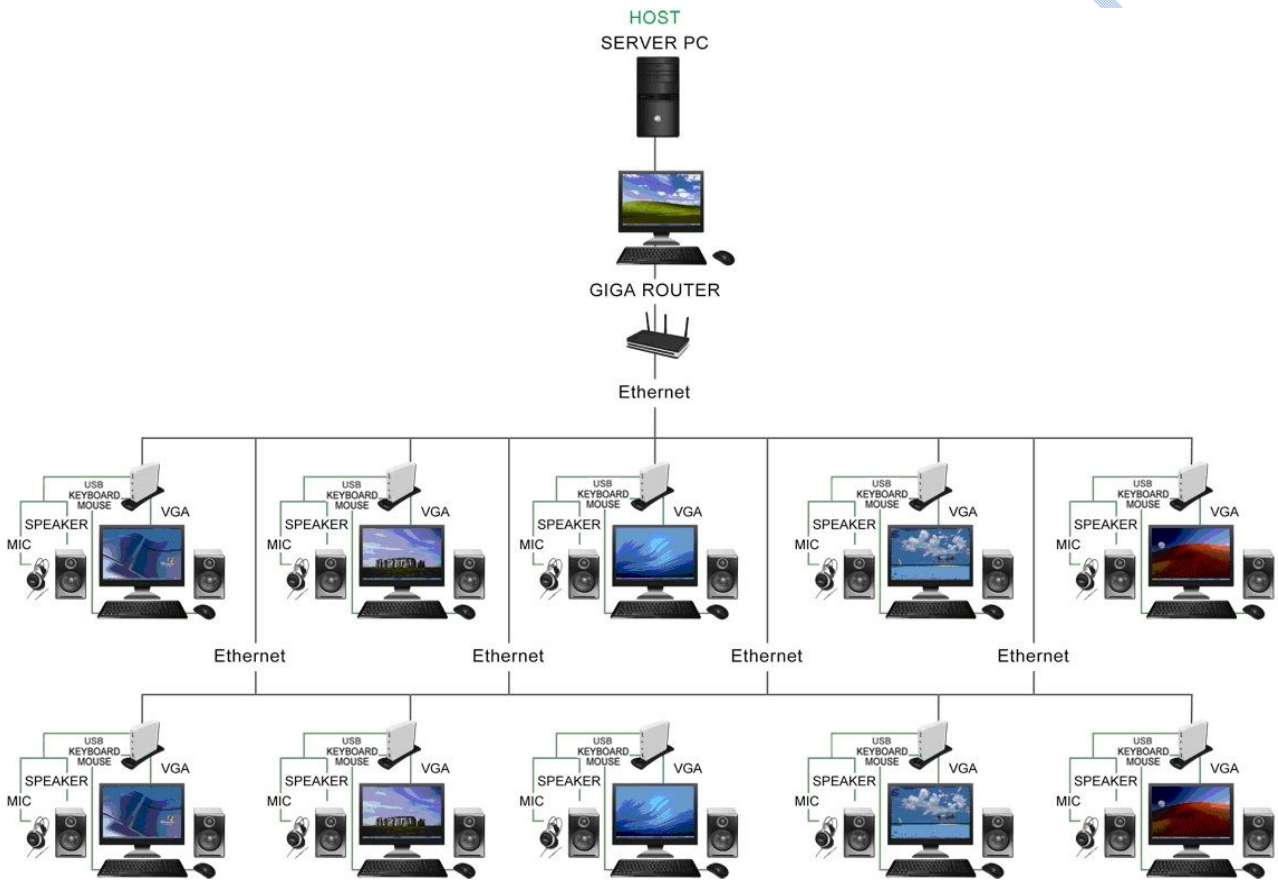


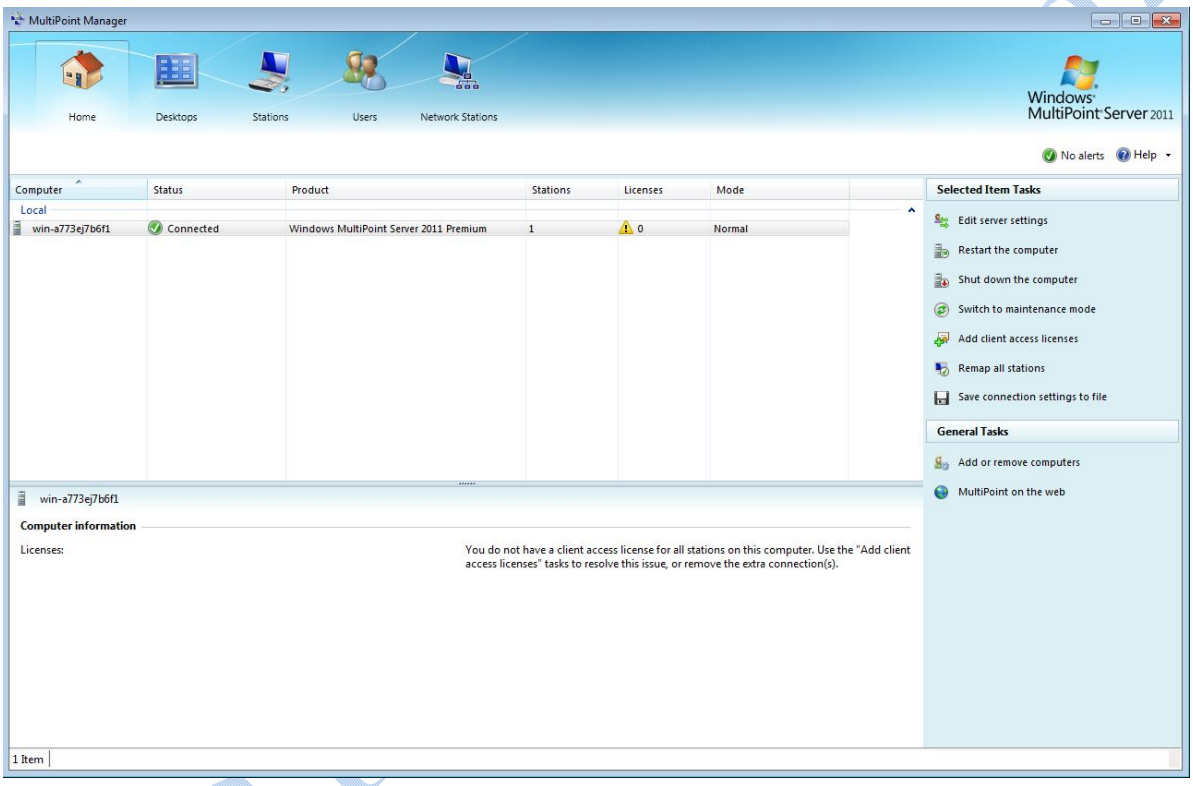
Figure 1: 10-Seat Implementation of Windows MultiPoint Server2011 with using MWS400UL

THE STATION ASSIGNMENT AND FIRMWARE UPDATE

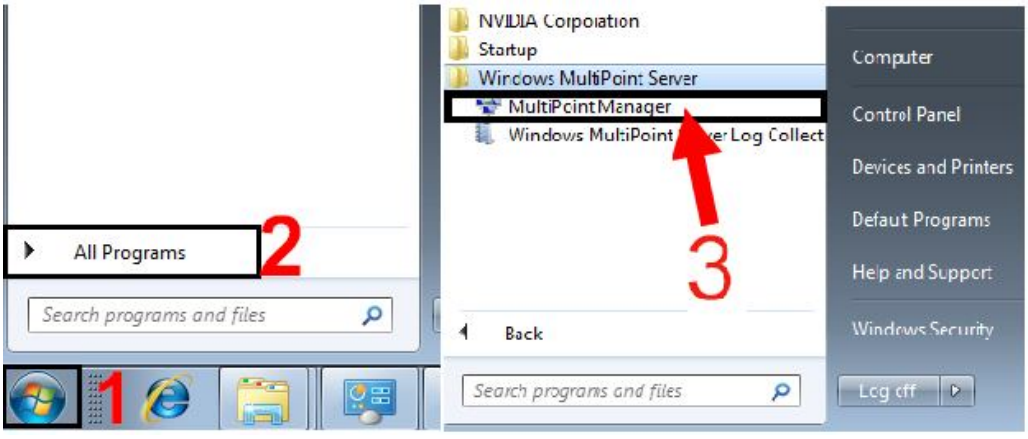
BUILDING WORKSTATION ON SINGLE SERVER ONLY

(following example drawing is using model MWS9940, the function is same as MWS400UL)

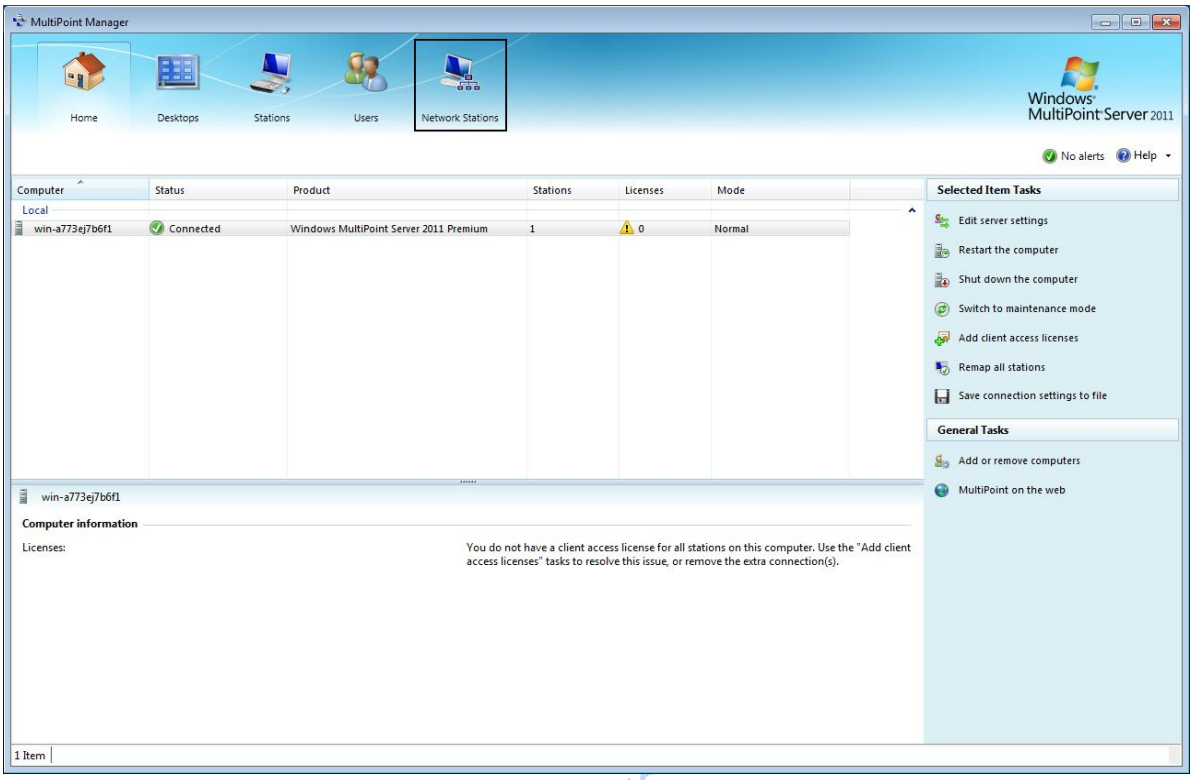
Step 1
The “MultiPoint Manager” page will be auto-displayed in a minute after system boot-up and administrator log-in.



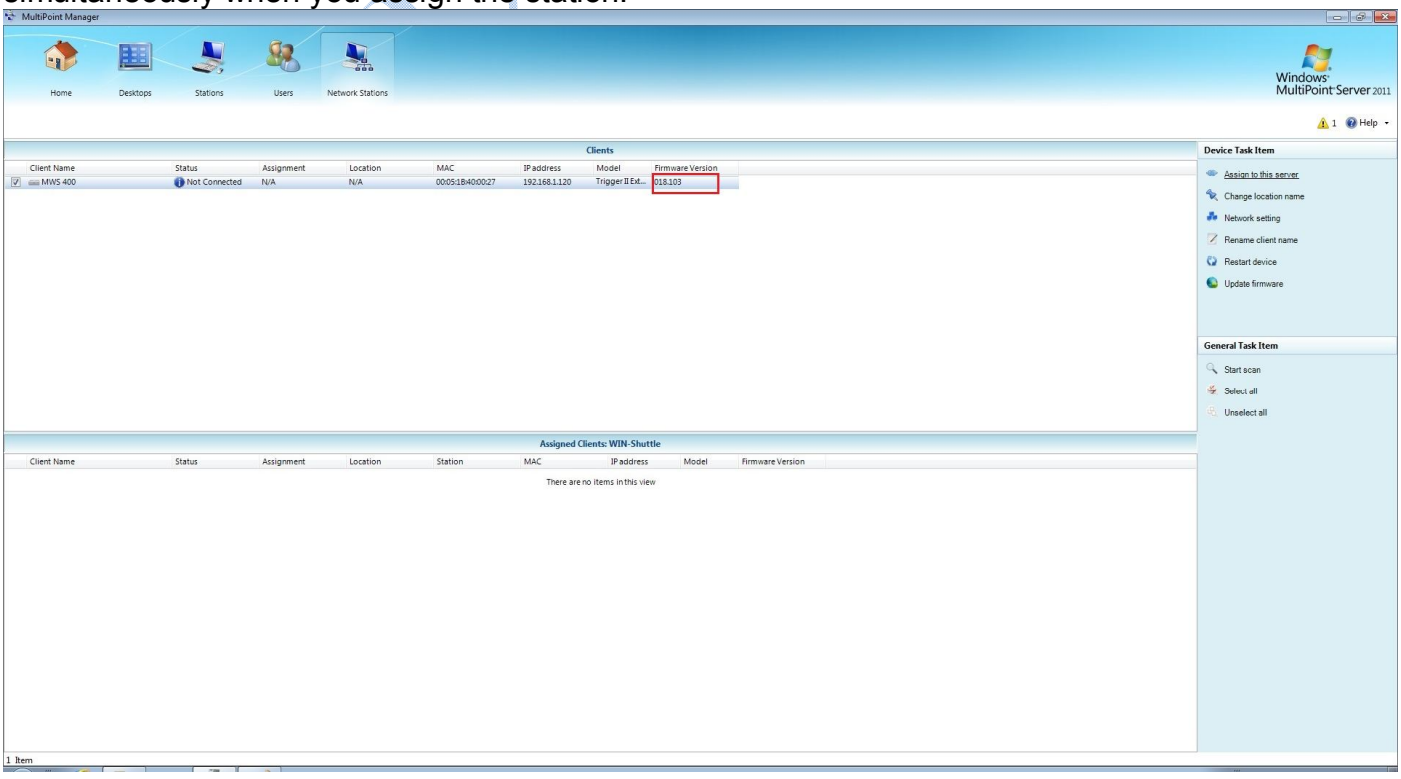
NOTE: If this page did not pop out automatically, please follow the illustrate below: 1. Start -> 2. All Programs -> 3. MultiPoint Manager



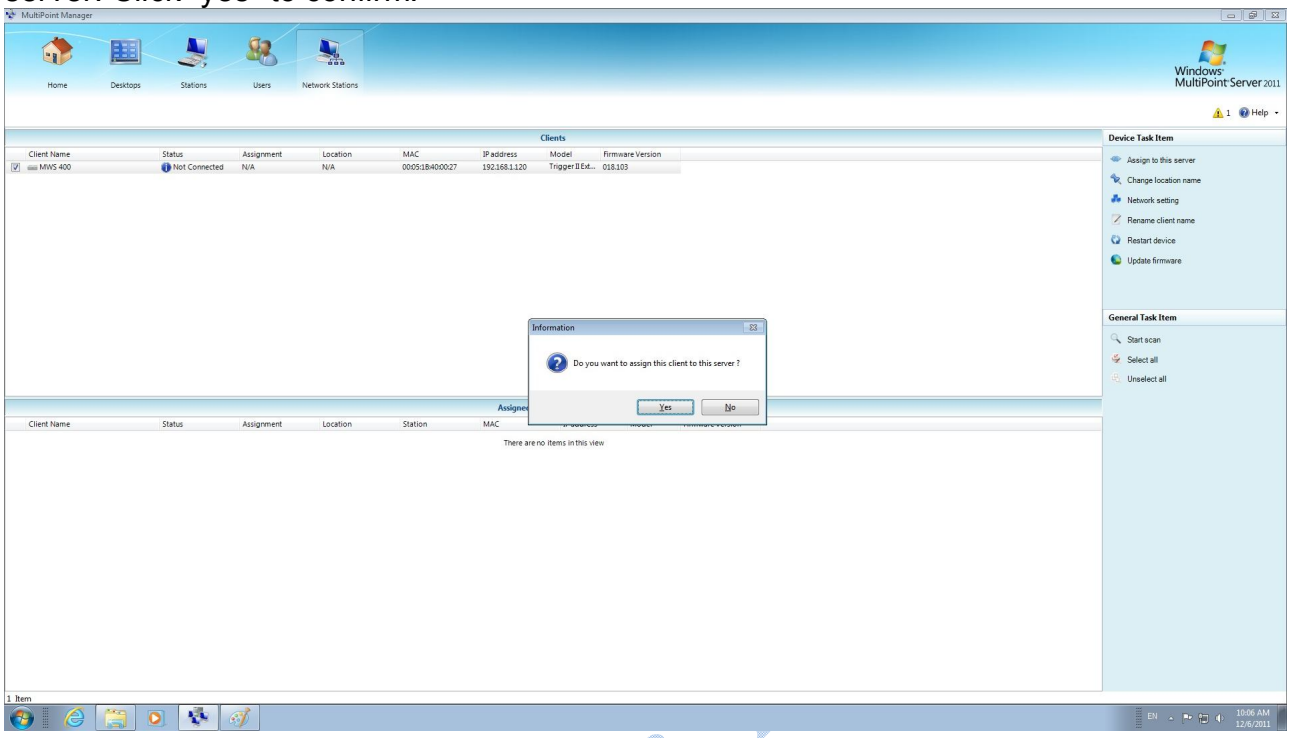
Step 2
Click “Network Stations” as showed:



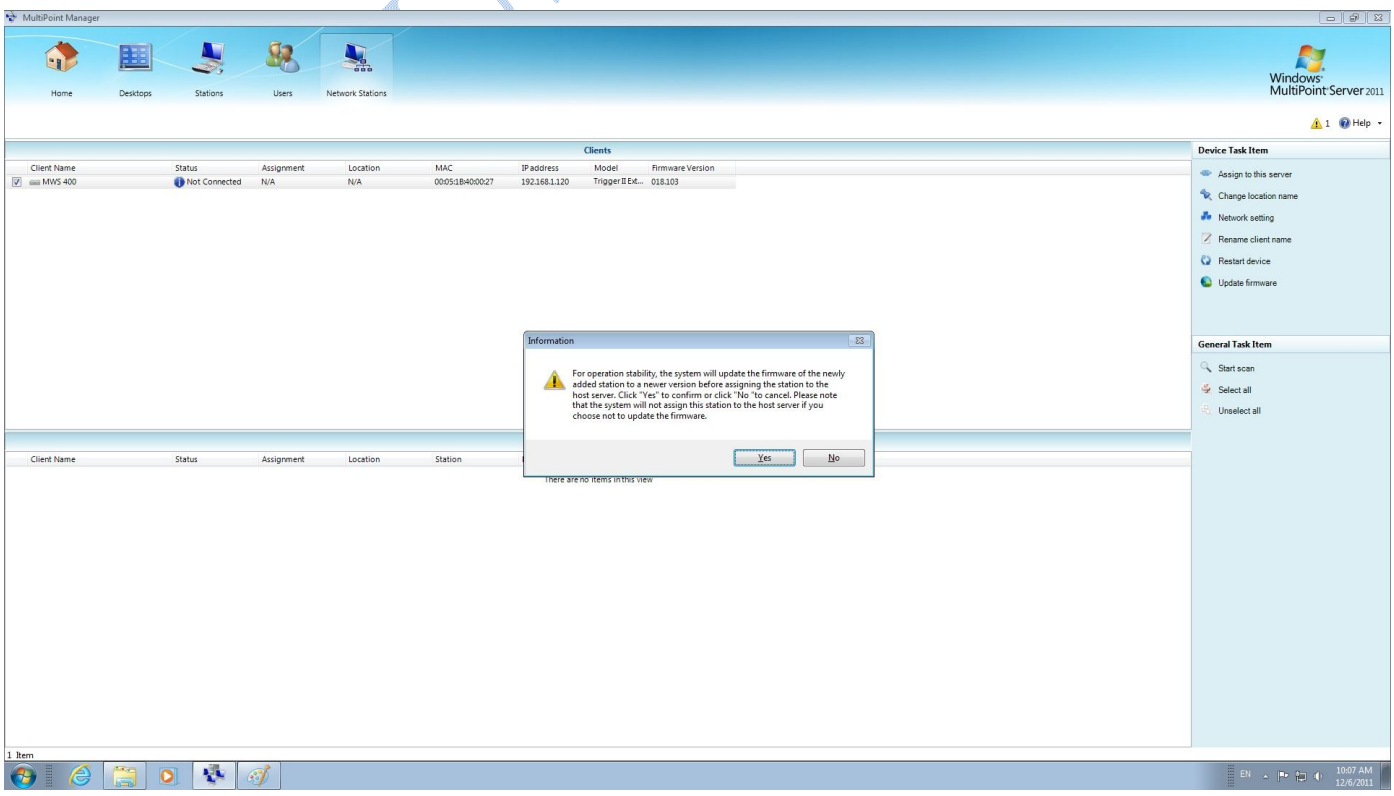
Step 2-1
Assign one station to the host server, if the firmware is old version such as 018.103. It will be updated to new firmware simultaneously when you assign the station.



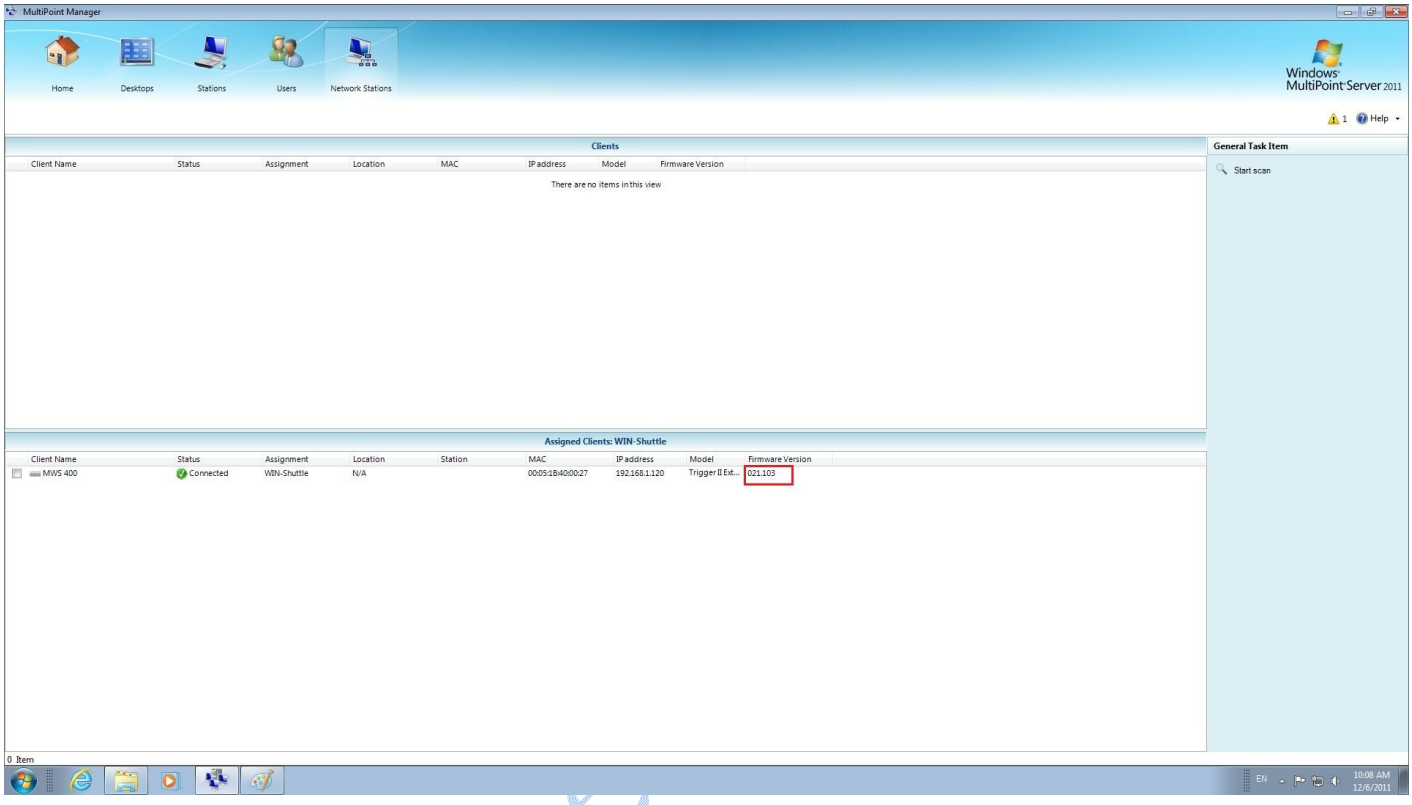
Step 2-2
This screen is asking to assign to this host server. Click “yes” to confirm.



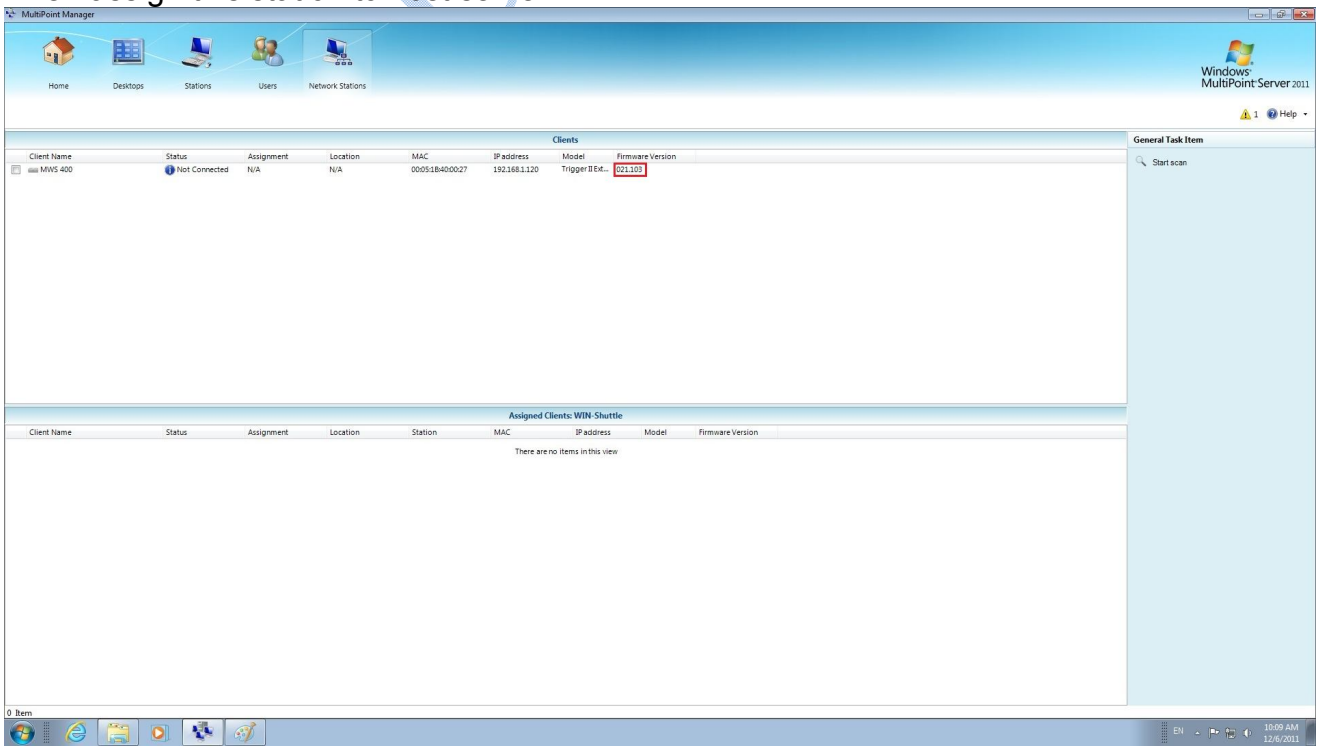
Step 2-3
This screen was detected old firmware, click “yes” to update new firmware and assign to the host server.



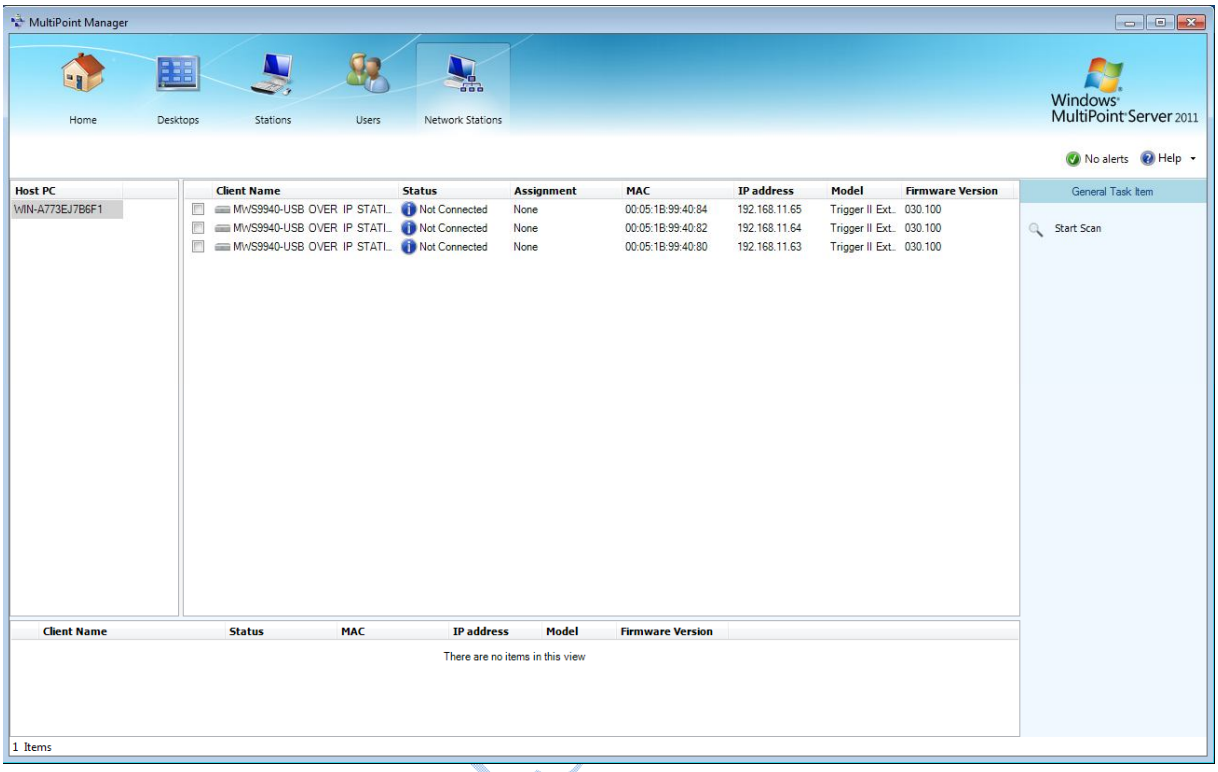
Step 2-4
This screen shows “finish assignment”, and new firmware is 021.103.



Step 2-5
If the firmware is newest, no need to update it when assign this station to host server.



** You also can assign multi-stations to the host server at the same time. **
When there is 3 workstation HUB is connected, It shows 3 stations on the screen which are free / waiting for assignment inside the “status” column indicating as “not connected”.



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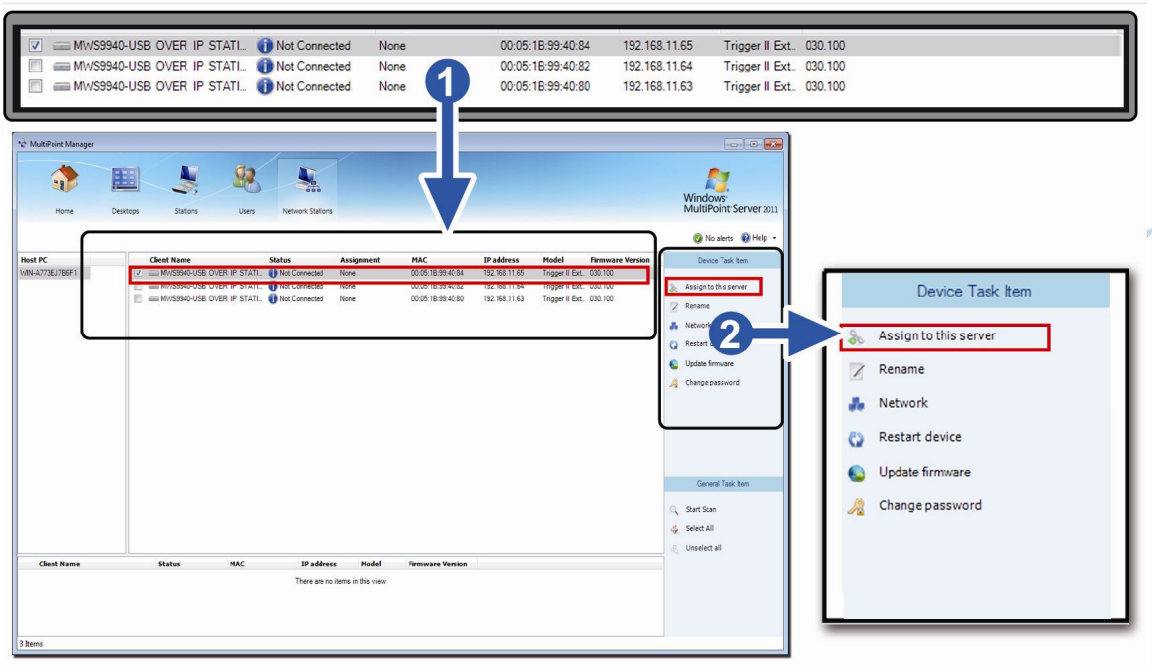
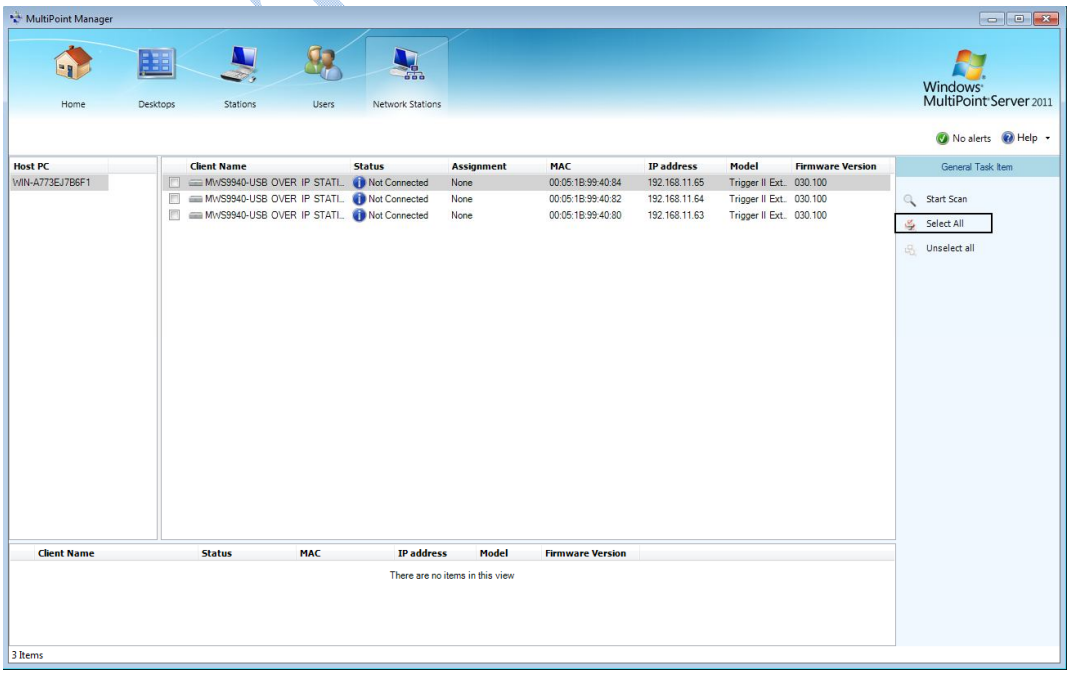
Step 3
Click the block "☐" to select one of the stations under the column on the left side of the "client Name" and then click "Assign to this server" at the right column as illustrated.



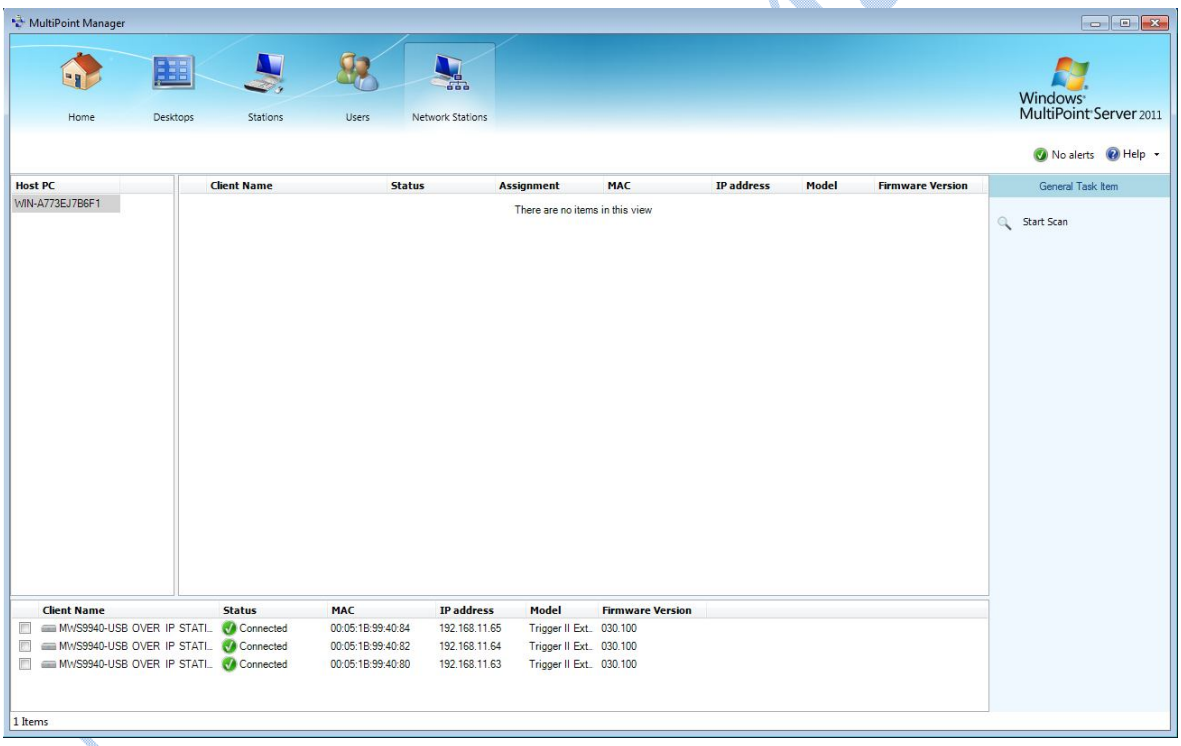
Step 3-1
If all of the stations need to be selected, simply click "Select All" at the right column under "Device Task Item". After that, you will find all of the stations are selected as the blocks "☐". Then, click "Assign to this server".



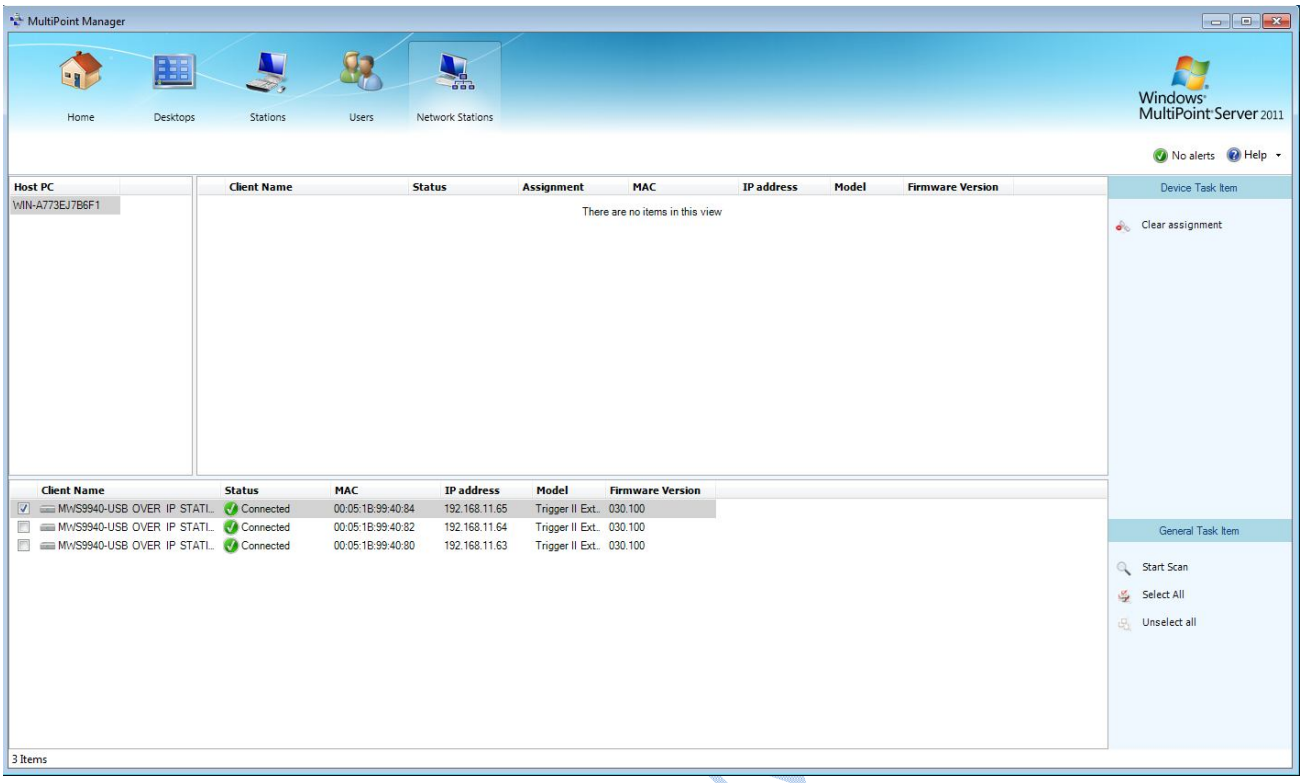
Tuner

Step 4
Click “Yes” to complete the station assignment.
Repeat the same process of step3 – 4 for the any other one of the station you desire to select for station assignment.

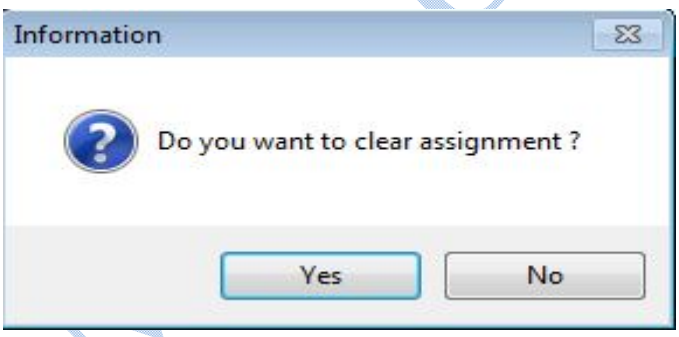
Step 5
The status column will show “Connected” workstation at lower section of the screen.



NOTE: If any one of the stations needs to be disconnected, please select the station and Click “Clear Assignment” under “Device Task Item” on the right panel of the screen then click “Yes” while the dialog pop up for disconnection.



If all of the stations need to be disconnected, simply click “Select All” at the right column under “General Task Item”.
After that, you will find all of the stations are selected as the blocks “☐” and click “Clear Assignment” then click “Yes” while the dialog pop up for disconnection.

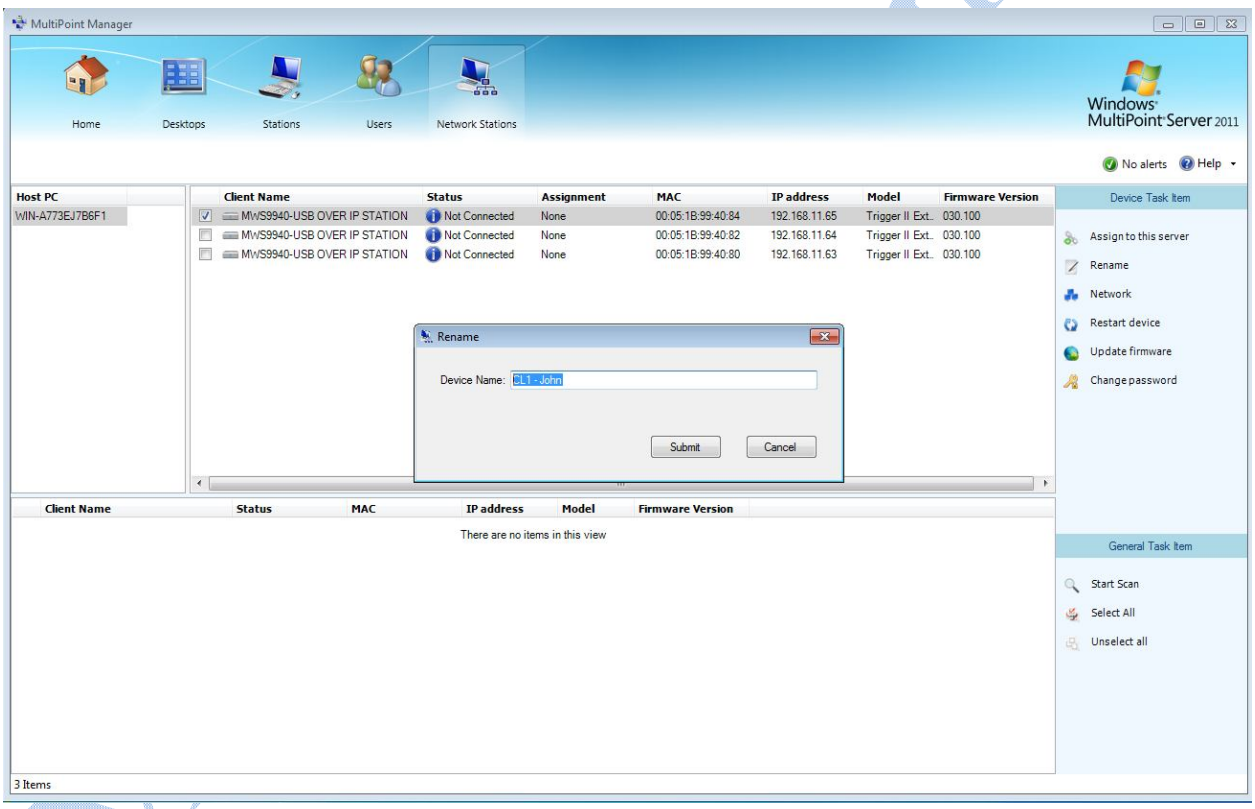


STATIONS RENAME

(following example drawing is using model MWS9940, the function is same as MWS400UL)

Renaming the station may convenient administrator recognizing MAC address location by his own design, it needs to be done before station gets assignment.
Rename step:

1. Select station by one left click
2. Left click on “Rename” at right panel
3. Rename dialog will pop up then typing desire name (e.g. CL1-John, CL2-Josh)
4. Click “Submit” to complete

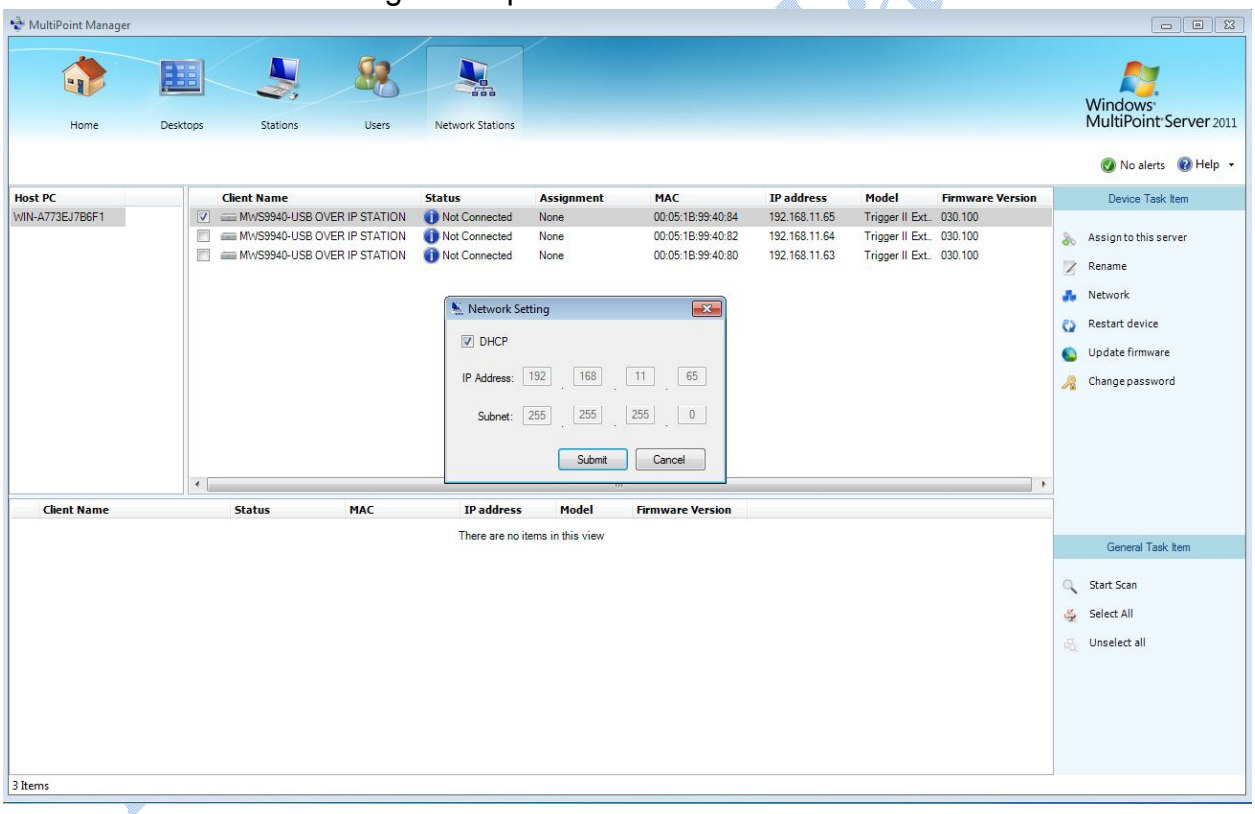


NETWORK SETTING

(following example drawing is using model MWS9940, the function is same as MWS400UL)

A Local Area Network setting to be prioritize either by Static IP or Dynamic IP for this Server, this Network Setting needs to be done before station gets assigned. "Dynamic IP" is recommend with Router Device:
Select station by one left click highlight
Left click on "Network" under "Device Task Item".

Network setting dialog will pop out then left click the DHCP for auto distributing the IP address or manually type the IP address then click "Submit" on the dialog to complete.

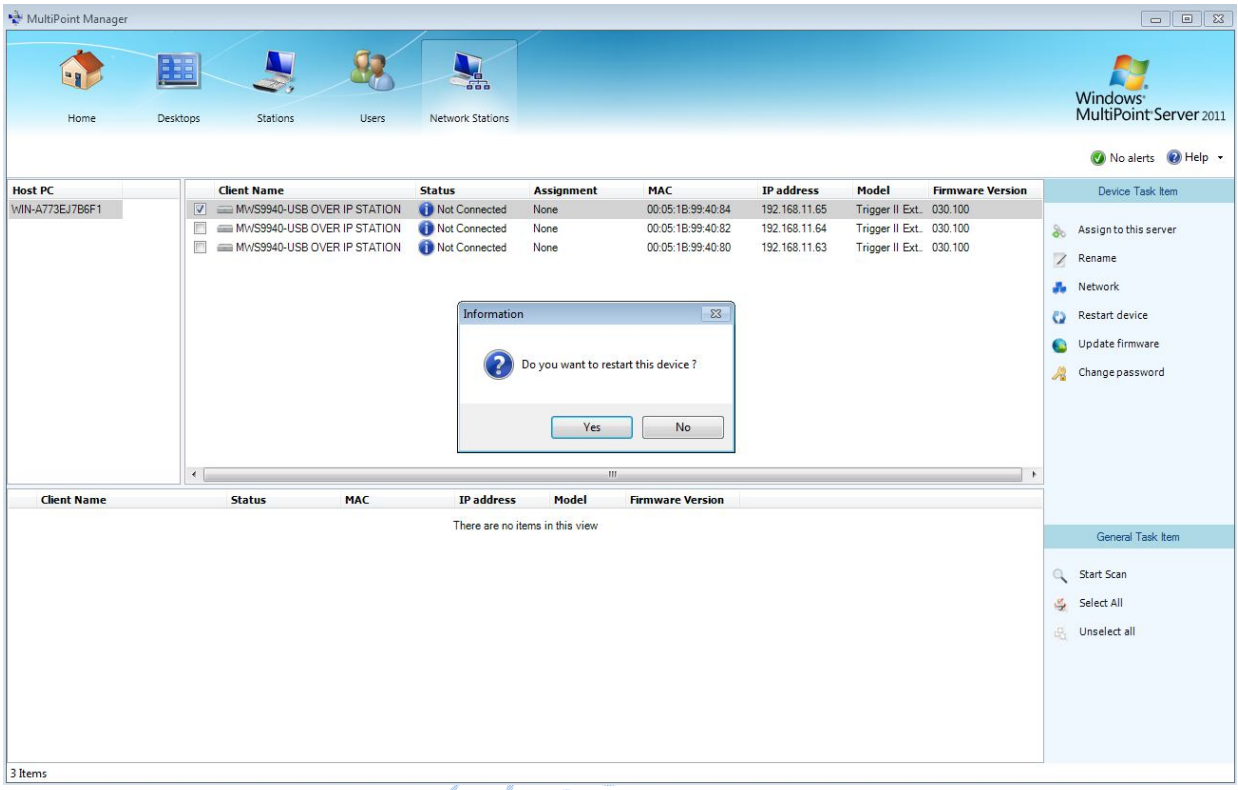


RESTART DEVICE

(following example drawing is using model MWS9940, the function is same as MWS400UL)

Restart Device function can be use when there are some station did not recognize keyboard/mouse. "Restart device" needs to be done before station gets assignment.

Restart device step:
Select station by one left click highlighting
Left click on “Restart device” under “Device Task Item.”
Click “Yes” on the dialog to complete



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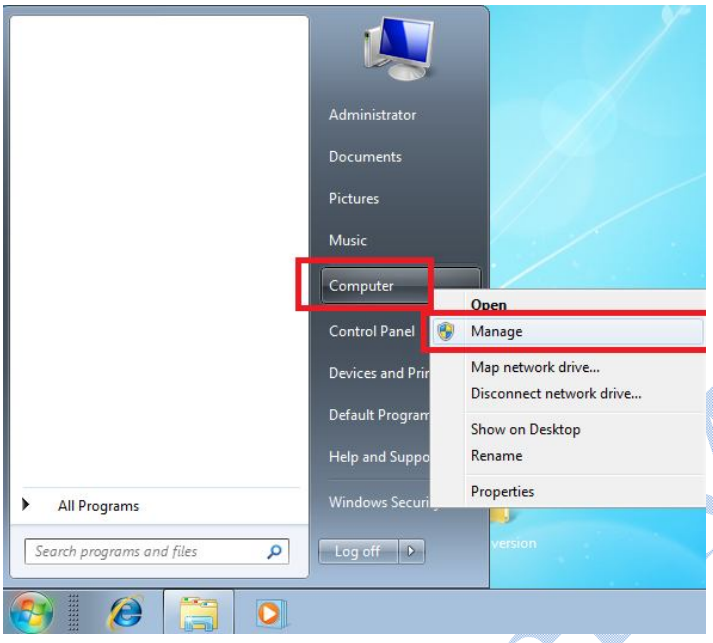
VERIFYING THE MWS400UL CONNECTION

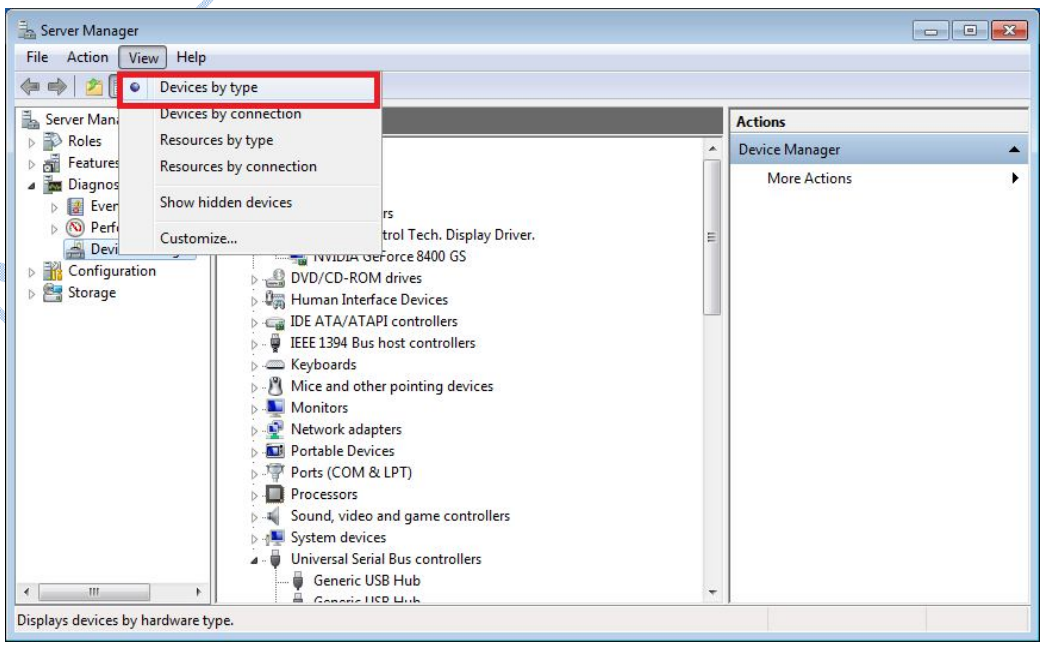
Step 1

Right click ‘Manage’ from the ‘computer’ as the screen



Step 2

Point to ‘Device Manager’ on the left panel under ‘Server Manager’ go to ‘View’ and click ‘Devices by type’ as the picture showed.



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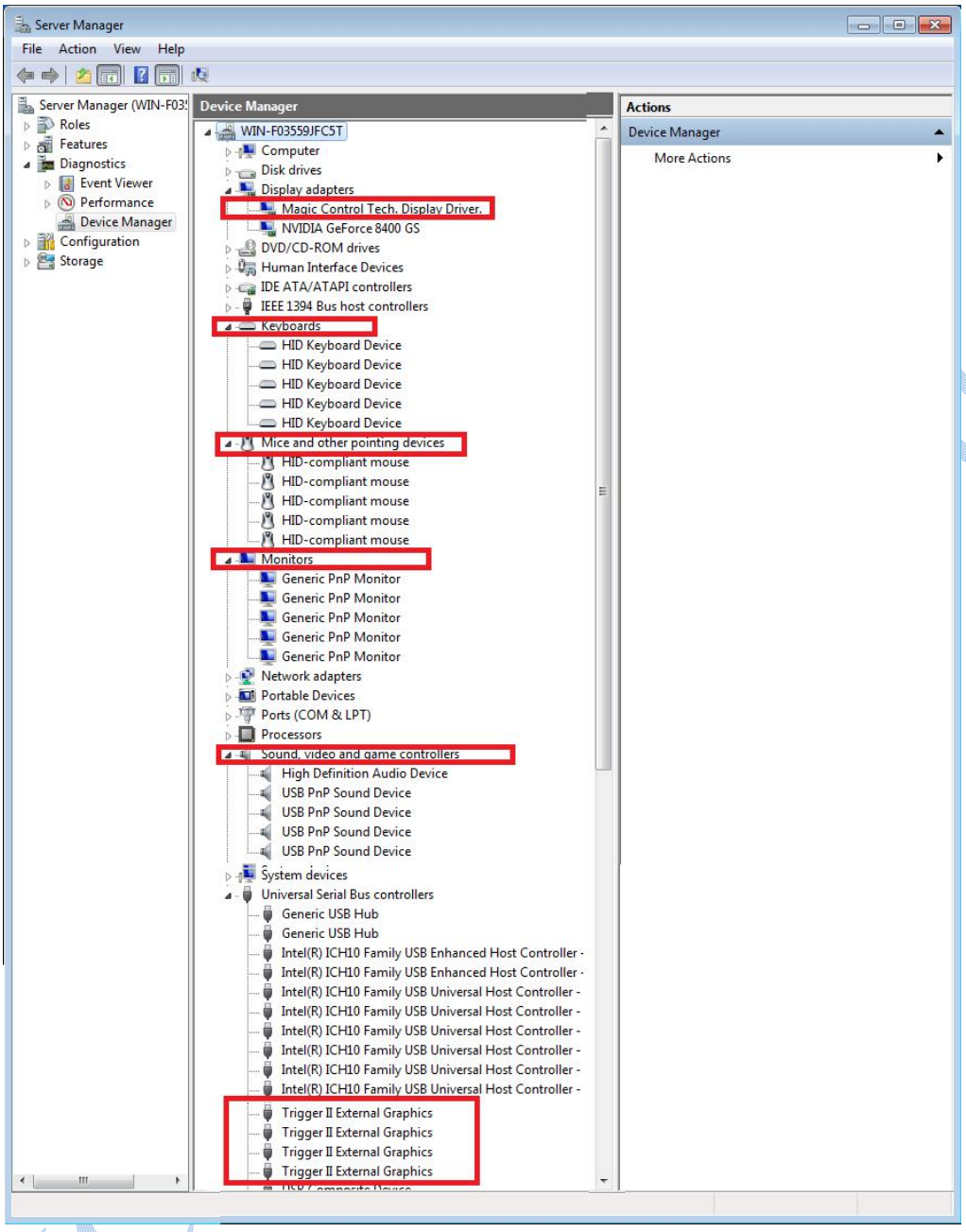


SPLIT SCREEN ON Windows Multipoint Server 2011

Any MultiPoint Server station monitor that has a resolution greater than 1024x768 can be split into two station screens using the split screen task on the Stations tab in MultiPoint Manager. The screen that is present on the monitor at the time that the splitting occurs moves to the left half of the monitor, and a new station's screen is created on the right half of the same monitor. The new station screen must be mapped to a keyboard, mouse, and **USB Hub or Router** to complete the creation of the new station. ---- **refer from page 12, *WMS2011 Planning Guide. Doc-Microsoft Word.*** After a station is split, one user can log on to the left station while another user logs on to the right station as the figure 2 show below.

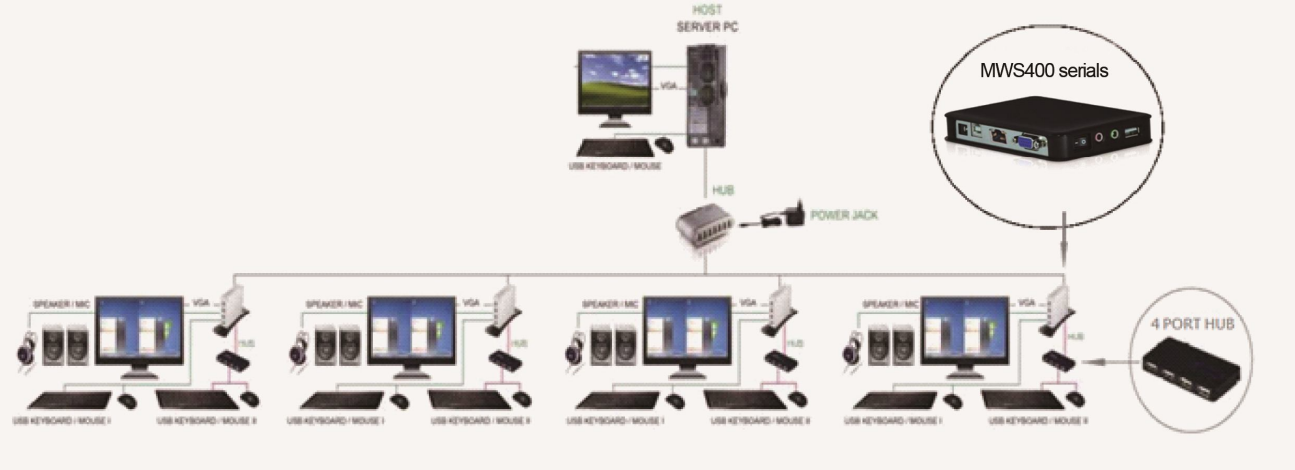
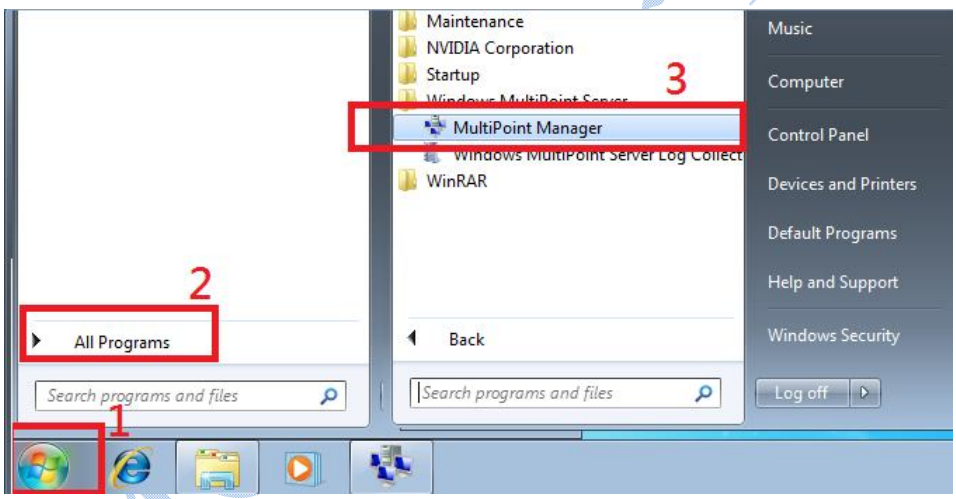


Figure 2: 8 Seats Implementation of Windows MultiPoint Server 2011 in split screen with using MWS400UL

Please follow up the steps for split screen as below:

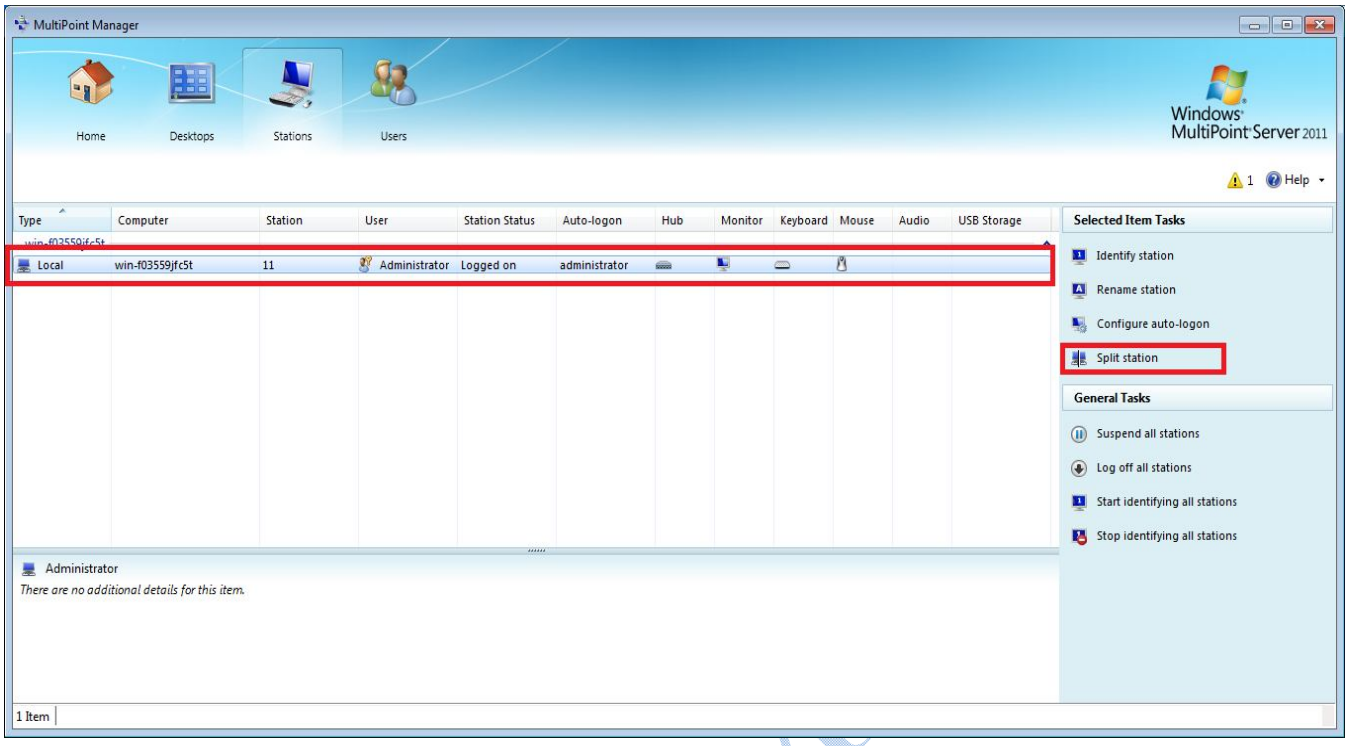
Step 1

Please follow up the procedure on illustration for getting into “MultiPoint Manager” as 1. Start -> 2. All Programs -> 3. Windows Multipoint Server --> MultiPoint Manager



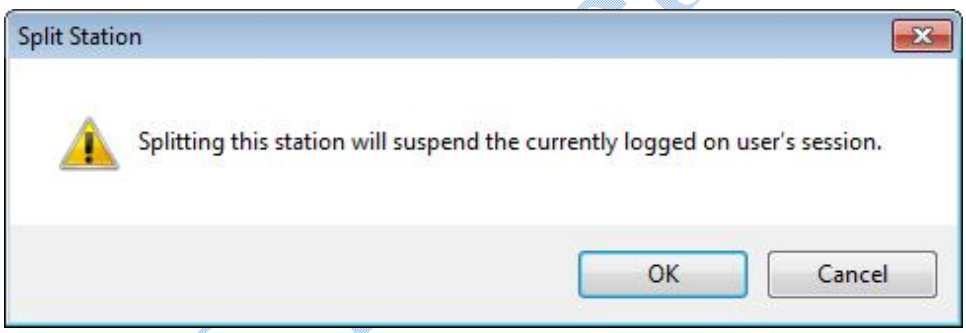
Step 2

Select “Stations” on MultiPoint Manager then highlight and click the local station after that click “Split station” under “Selected Item Tasks” as illustration.



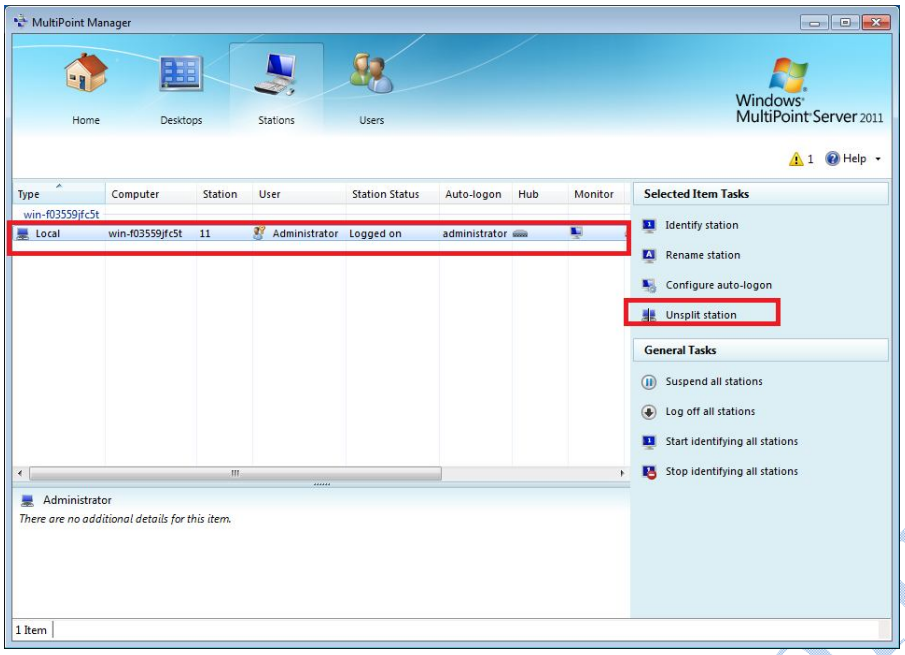
Step 3

Click OK to continue

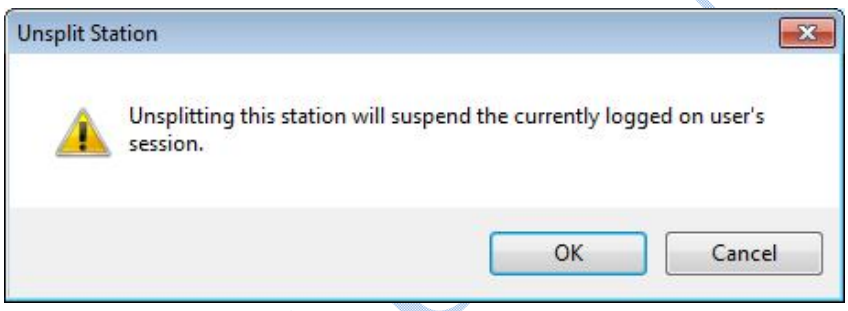


NOTE: TO DISABLE SPLIT SCREEN

Same procedure as above step1 for getting onto “MultiPoint Manager” and select “Stations” then highlight the local station and click “Unsplit station” under “Selected Item Tasks” as illustration.



Then click “OK” on the “Unsplit station” dialog to bring back into single station on the monitor.



ADJUSTING THE SCREEN RESOLUTION

By default, Windows MultiPoint Server 2011 will select the recommended resolution for each connected display. However, if you would like to choose a different resolution, follow these steps:

Step 1

Please follow up the procedure on illustration for getting into “MultiPoint Manager” as 1. Start -> 2. All Programs -> 3. Windows Multipoint Server --> MultiPoint Manager

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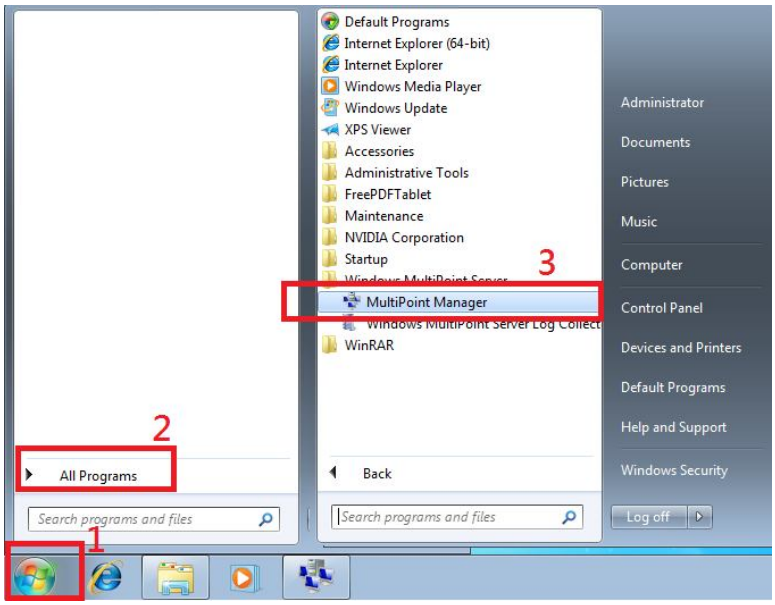
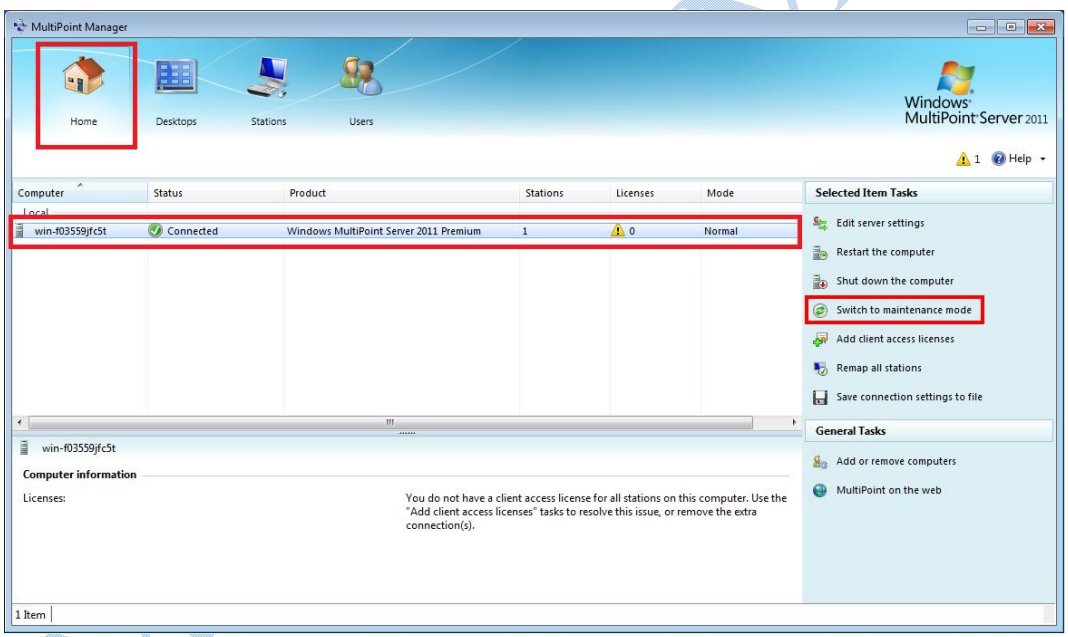


Step 2:

Go to MultiPoint Manager => Home =>Local Station => switch to maintenance mode



Step 3:

Click OK to continue

Switch to Maintenance Mode
Switching the computer that is running Windows MultiPoint Server to maintenance mode will suspend all local user stations.
OK
Cancel

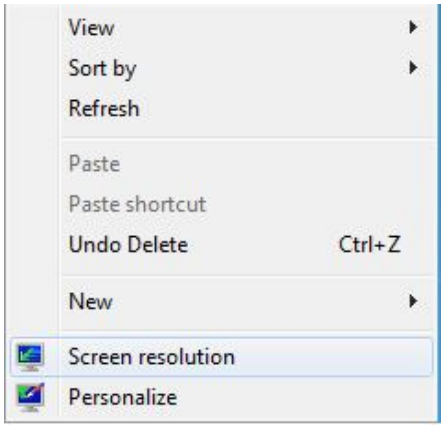
Manual

Step 4

Press “Ctrl + Alt + Delete” to log in administrator into **Maintenance Mode**

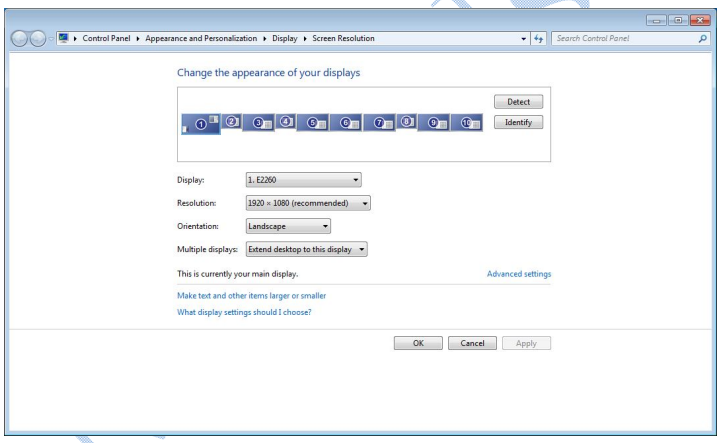
Step 5

Right click on the desktop and choose **Screen Resolution** from the contextual menu.



Step 6

Click Identify to **identify** each display. Then click on the display to be adjusted and choose the desired resolution from the **Resolution** dropdown menu. (suggest: better using the system recommend resolution)



DEVICE DRIVER UN-INSTALLATION

The following procedure allows you to uninstall the MWS400UL device driver. Please make sure all MWS400UL are unplugged from your server before executing the device driver uninstallation program.

Step 1

1. Click Start -> 2. All Programs -> 3. Control Panel

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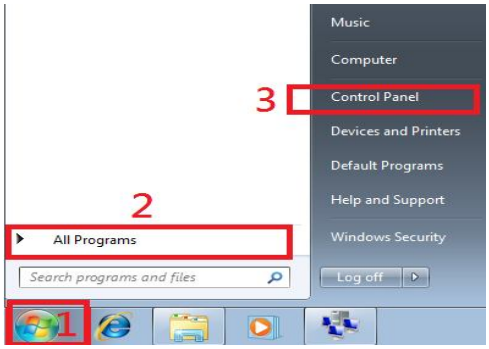
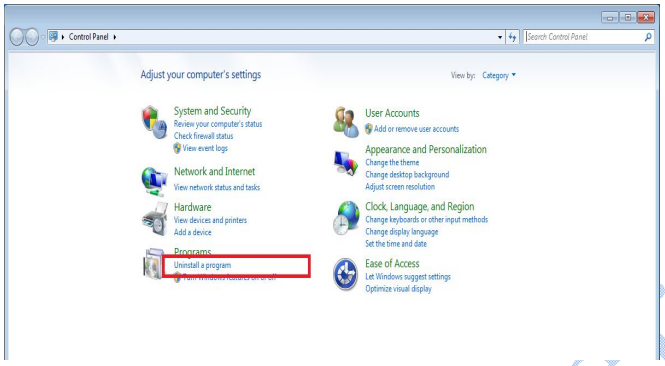


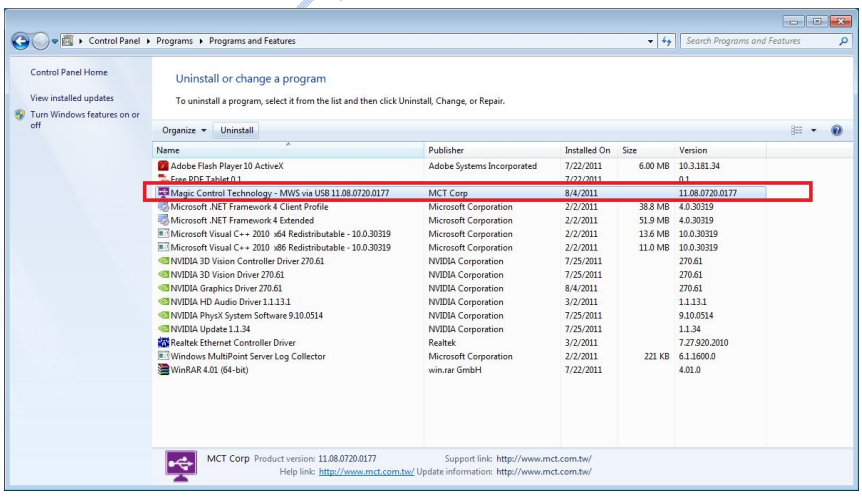
Step 2

Double click “Uninstall a program” as illustrated on the screen.



Step 3

Select the “Magic Control Technology – MWS xx.xx.xxxx.xxxx” item. Click Uninstall button.



Step 4

Click “OK” to continue

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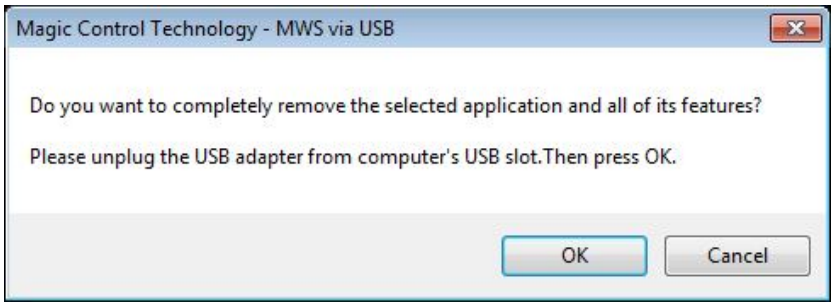
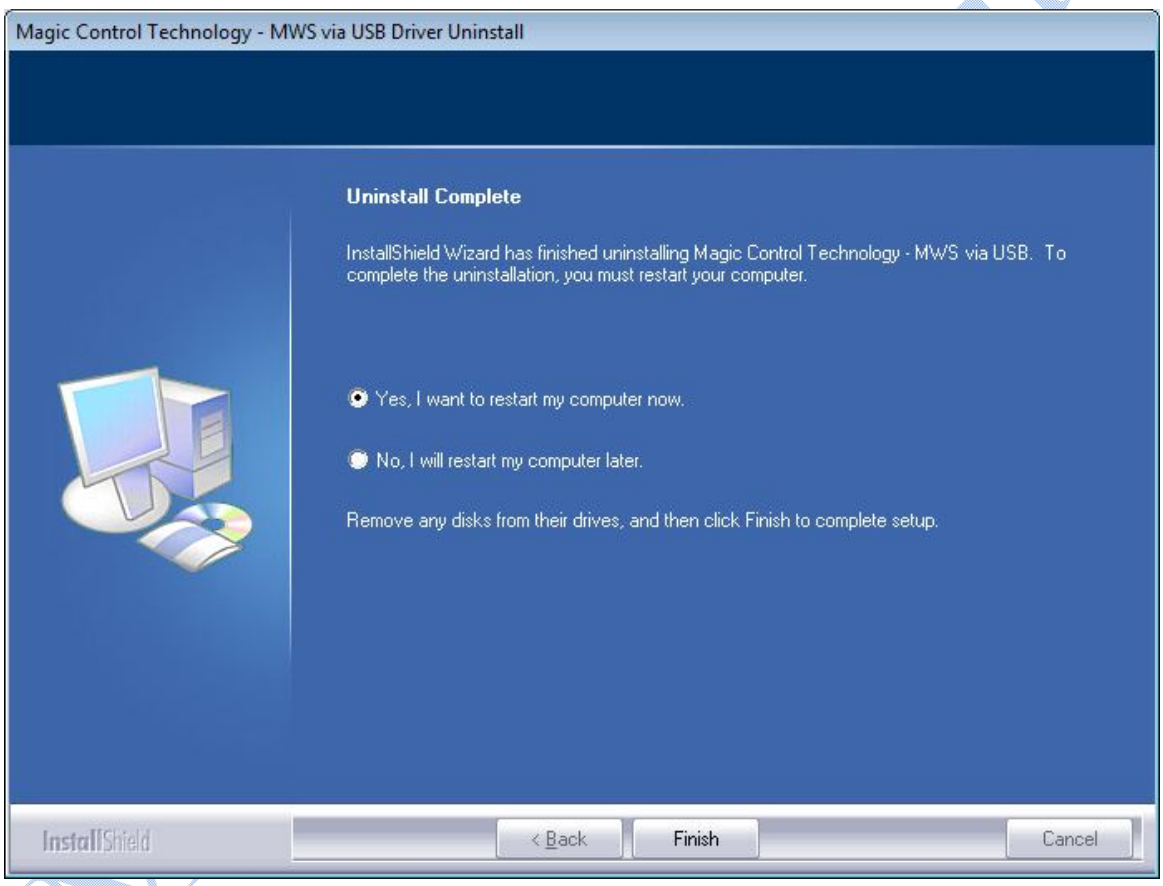
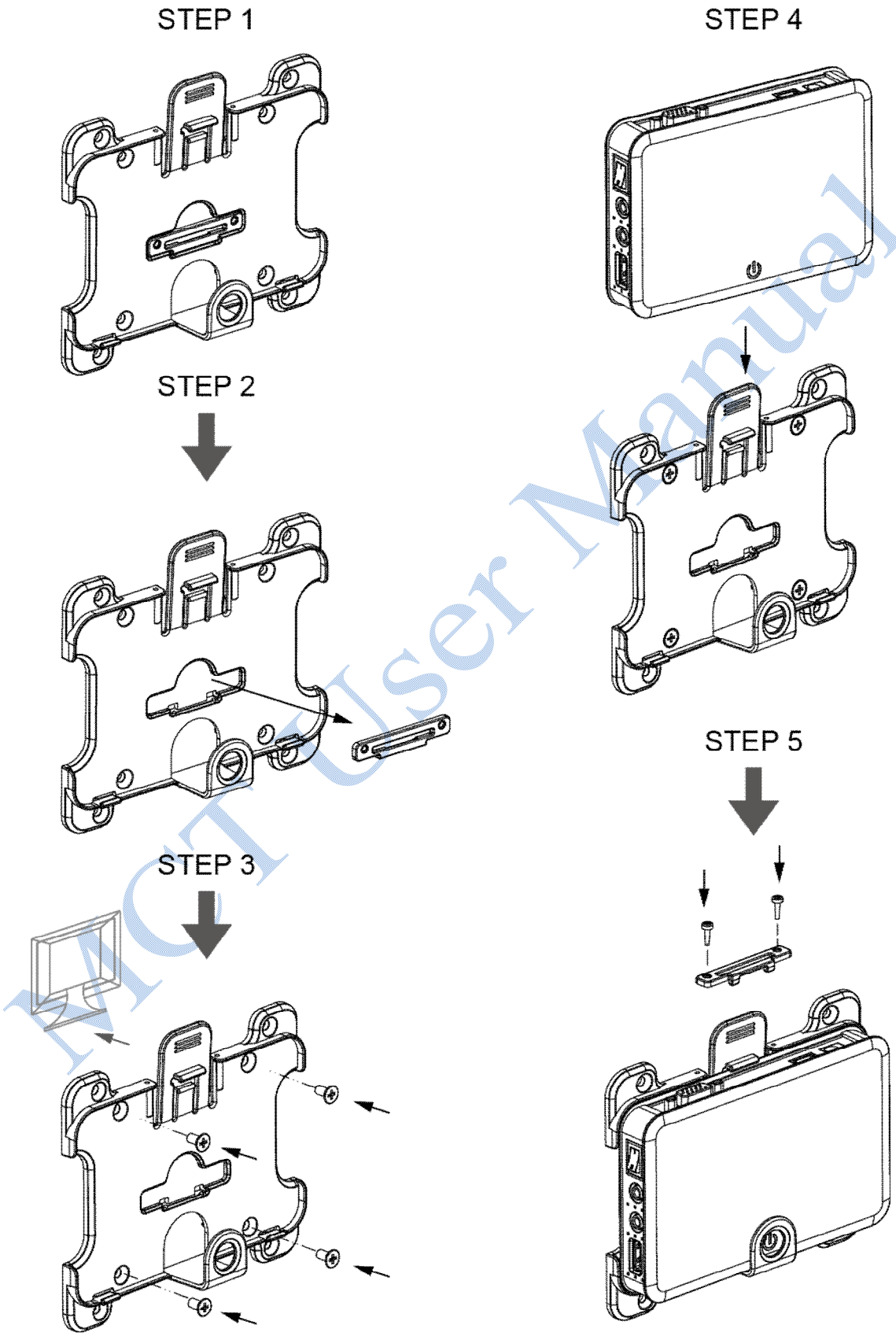

Magic Control Technology - MWS via USB
Do you want to completely remove the selected application and all of its features?
Please unplug the USB adapter from computer's USB slot.Then press OK.
OK
Cancel

Step 5

Select “Yes, I want to restart my computer now” and click “Finish” to reboot. The driver is now uninstalled.


Magic Control Technology - MWS via USB Driver Uninstall
Uninstall Complete
InstallShield Wizard has finished uninstalling Magic Control Technology - MWS via USB. To complete the uninstallation, you must restart your computer.
Yes, I want to restart my computer now.
No, I will restart my computer later.
Remove any disks from their drives, and then click Finish to complete setup.
InstallShield
< Back
Finish
Cancel

VESA MOUNTING



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TROUBLESHOOTING TIPS

The following troubleshooting tips may help if you are experiencing any difficulties using our device.

- Check to make sure that all connectors are plugged in correctly.
- Make sure that the USB port that you are using is USB 2.0.
- Try a different USB 2.0 port
- Check to see that the monitor is connected correctly and the power is ON.
- Make sure to restart the server after the driver installation.
- Unplug the USB connector from MWS400UL, re-insert after 10 seconds.
- Check the website to make sure you have the latest drivers.
- Reset/refresh/resynchronize your monitor.
- Full screen video display is not recommended; use Intel Sandy Bridge chipset may help with better performance.

For immediate support, visit http://www.mct.com.tw to find the latest documentation, Knowledge Base articles, and software for your device.

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